

GenCore version 5.1.9  
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OM protein - protein search, using sw model

Run on: July 28, 2006, 13:54:14 ; Search time 49 Seconds  
(without alignments)  
494.816 Million cell updates/sec

Title: US-10-063-530-28  
Perfect score: 277  
Sequence: 1 MNLVPLQLVLLVLTPLH.....PSIQLEQATHQPIVPLRGCT 277

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 650591 seqs, 87530628 residues

Word size : 6

Total number of hits satisfying chosen parameters: 1588

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-Processing: Listing first 1500 summaries

Database :

Issued Patents AA:\*  
1: /EMC\_Celerra\_SIDS3/prodata/2/1aa/5\_COMB.pep:\*  
2: /EMC\_Celerra\_SIDS3/prodata/2/1aa/6\_COMB.pep:\*  
3: /EMC\_Celerra\_SIDS3/prodata/2/1aa/7\_COMB.pep:\*  
4: /EMC\_Celerra\_SIDS3/prodata/2/1aa/H\_COMB.pep:\*  
5: /EMC\_Celerra\_SIDS3/prodata/2/1aa/PCTUS\_COMB.pep:\*  
6: /EMC\_Celerra\_SIDS3/prodata/2/1aa/RE\_COMB.pep:\*  
7: /EMC\_Celerra\_SIDS3/prodata/2/1aa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length | DB | ID                   | Description        |
|------------|-------|-------------|--------|----|----------------------|--------------------|
| 1          | 277   | 100.0       | 277    | 2  | US-09-991-181-169    | Sequence 169, App  |
| 2          | 277   | 100.0       | 277    | 2  | US-09-990-444-169    | Sequence 169, App  |
| 3          | 277   | 100.0       | 277    | 2  | US-09-997-333-169    | Sequence 169, App  |
| 4          | 277   | 100.0       | 277    | 2  | US-09-992-598-169    | Sequence 169, App  |
| 5          | 277   | 100.0       | 277    | 2  | US-09-989-735-169    | Sequence 169, App  |
| 6          | 277   | 100.0       | 277    | 3  | US-09-989-726-169    | Sequence 169, App  |
| 7          | 277   | 100.0       | 277    | 3  | US-09-989-514-169    | Sequence 169, App  |
| 8          | 277   | 100.0       | 277    | 3  | US-09-989-728-169    | Sequence 169, App  |
| 9          | 277   | 100.0       | 277    | 3  | US-09-997-349-169    | Sequence 169, App  |
| 10         | 277   | 100.0       | 277    | 3  | US-09-997-653-169    | Sequence 169, App  |
| 11         | 277   | 100.0       | 277    | 3  | US-09-989-293A-169   | Sequence 169, App  |
| 12         | 131   | 47.3        | 151    | 2  | US-08-905-223-436    | Sequence 436, App  |
| 13         | 132   | 47.3        | 158    | 2  | US-09-621-976-4227   | Sequence 4227, App |
| 14         | 10    | 3.6         | 281    | 2  | US-09-252-991A-19858 | Sequence 19858, A  |
| 15         | 9     | 3.2         | 147    | 2  | US-09-902-540-12005  | Sequence 12005, A  |
| 16         | 8     | 2.9         | 254    | 2  | US-09-252-991A-20270 | Sequence 20270, A  |
| 17         | 8     | 2.9         | 257    | 2  | US-09-583-110-3689   | Sequence 3689, App |
| 18         | 8     | 2.9         | 267    | 2  | US-09-107-433-4547   | Sequence 4547, App |
| 19         | 8     | 2.9         | 436    | 2  | US-09-252-991A-22426 | Sequence 22426, A  |
| 20         | 8     | 2.9         | 1484   | 2  | US-09-902-540-14332  | Sequence 14332, A  |
| 21         | 7     | 2.5         | 18     | 1  | US-08-978-404B-30    | Sequence 30, App1  |
| 22         | 7     | 2.5         | 48     | 2  | US-09-831-683B-36    | Sequence 36, App1  |
| 23         | 7     | 2.5         | 78     | 2  | US-09-991-181-363    | Sequence 363, App  |
| 24         | 7     | 2.5         | 78     | 2  | US-09-990-444-363    | Sequence 363, App  |
| 25         | 7     | 2.5         | 78     | 2  | US-09-997-333-363    | Sequence 363, App  |
| 26         | 7     | 2.5         | 78     | 2  | US-09-992-598-363    | Sequence 363, App  |

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| 27 | 7 | 2.5 | 78  | 2 | US-09-989-735-363    | Sequence 363, App   |
| 28 | 7 | 2.5 | 78  | 3 | US-09-989-726-363    | Sequence 363, App   |
| 29 | 7 | 2.5 | 78  | 3 | US-09-997-514-363    | Sequence 363, App   |
| 30 | 7 | 2.5 | 78  | 3 | US-09-989-728-363    | Sequence 363, App   |
| 31 | 7 | 2.5 | 78  | 3 | US-09-997-349-363    | Sequence 363, App   |
| 32 | 7 | 2.5 | 78  | 3 | US-09-997-653-363    | Sequence 363, App   |
| 33 | 7 | 2.5 | 78  | 3 | US-09-989-293A-363   | Sequence 363, App   |
| 34 | 7 | 2.5 | 114 | 2 | US-09-266-965-2      | Sequence 2, App1    |
| 35 | 7 | 2.5 | 115 | 2 | US-09-266-965-1      | Sequence 1, App1    |
| 36 | 7 | 2.5 | 115 | 2 | US-09-266-965-6      | Sequence 6, App1    |
| 37 | 7 | 2.5 | 116 | 2 | US-09-081-320-29     | Sequence 29, App1   |
| 38 | 7 | 2.5 | 116 | 2 | US-09-574-141A-29    | Sequence 29, App1   |
| 39 | 7 | 2.5 | 116 | 2 | US-09-707-780-29     | Sequence 29, App1   |
| 40 | 7 | 2.5 | 116 | 2 | US-09-568-189A-29    | Sequence 29, App1   |
| 41 | 7 | 2.5 | 117 | 2 | US-09-081-320-7      | Sequence 7, App1    |
| 42 | 7 | 2.5 | 117 | 2 | US-09-574-141A-7     | Sequence 7, App1    |
| 43 | 7 | 2.5 | 117 | 2 | US-09-574-141A-74    | Sequence 74, App1   |
| 44 | 7 | 2.5 | 117 | 2 | US-09-707-780-7      | Sequence 7, App1    |
| 45 | 7 | 2.5 | 117 | 2 | US-09-568-189A-7     | Sequence 7, App1    |
| 46 | 7 | 2.5 | 117 | 2 | US-09-568-189A-74    | Sequence 74, App1   |
| 47 | 7 | 2.5 | 128 | 2 | US-09-902-540-14686  | Sequence 14686, A   |
| 48 | 7 | 2.5 | 128 | 2 | US-09-327-750F-33    | Sequence 33, App1   |
| 49 | 7 | 2.5 | 131 | 2 | US-09-569-611C-44    | Sequence 44, App1   |
| 50 | 7 | 2.5 | 147 | 2 | US-09-902-540-13794  | Sequence 13794, A   |
| 51 | 7 | 2.5 | 188 | 2 | US-09-270-767-57056  | Sequence 57056, A   |
| 52 | 7 | 2.5 | 195 | 2 | US-09-489-039A-10747 | Sequence 10747, A   |
| 53 | 7 | 2.5 | 203 | 2 | US-09-543-681A-4329  | Sequence 4329, App  |
| 54 | 7 | 2.5 | 219 | 2 | US-08-311-731A-8     | Sequence 8, App1    |
| 55 | 7 | 2.5 | 220 | 2 | US-09-248-528-15     | Sequence 15, App1   |
| 56 | 7 | 2.5 | 220 | 2 | US-09-549-108-15     | Sequence 15, App1   |
| 57 | 7 | 2.5 | 220 | 2 | US-09-549-111-15     | Sequence 15, App1   |
| 58 | 7 | 2.5 | 220 | 2 | US-09-549-106-15     | Sequence 15, App1   |
| 59 | 7 | 2.5 | 220 | 2 | US-09-550-394-15     | Sequence 15, App1   |
| 60 | 7 | 2.5 | 227 | 2 | US-09-902-540-10904  | Sequence 10904, A   |
| 61 | 7 | 2.5 | 235 | 2 | US-09-328-352-4407   | Sequence 4407, App  |
| 62 | 7 | 2.5 | 242 | 2 | US-09-252-991A-27179 | Sequence 27179, A   |
| 63 | 7 | 2.5 | 242 | 2 | US-09-902-540-13983  | Sequence 13983, A   |
| 64 | 7 | 2.5 | 243 | 2 | US-09-831-683B-20    | Sequence 20, App1   |
| 65 | 7 | 2.5 | 244 | 2 | US-09-352-991A-26246 | Sequence 26246, A   |
| 66 | 7 | 2.5 | 245 | 2 | US-09-198-452A-37    | Sequence 37, App1   |
| 67 | 7 | 2.5 | 273 | 1 | US-08-978-404B-3     | Sequence 3, App1    |
| 68 | 7 | 2.5 | 273 | 1 | US-08-978-404B-6     | Sequence 6, App1    |
| 69 | 7 | 2.5 | 275 | 2 | US-09-266-965-110    | Sequence 110, App   |
| 70 | 7 | 2.5 | 280 | 2 | US-09-029-603-2      | Sequence 2, App1    |
| 71 | 7 | 2.5 | 280 | 2 | US-10-101-464A-511   | Sequence 511, App1  |
| 72 | 7 | 2.5 | 283 | 2 | US-09-266-965-109    | Sequence 109, App   |
| 73 | 7 | 2.5 | 307 | 2 | US-09-252-991A-29465 | Sequence 29465, A   |
| 74 | 7 | 2.5 | 359 | 2 | US-09-252-991A-31720 | Sequence 31720, A   |
| 75 | 7 | 2.5 | 386 | 2 | US-09-489-039A-10128 | Sequence 10128, A   |
| 76 | 7 | 2.5 | 393 | 2 | US-09-902-540-11003  | Sequence 11003, A   |
| 77 | 7 | 2.5 | 413 | 2 | US-09-252-991A-19043 | Sequence 19043, A   |
| 78 | 7 | 2.5 | 431 | 2 | US-09-252-991A-26239 | Sequence 26239, A   |
| 79 | 7 | 2.5 | 438 | 1 | US-08-836-620A-19    | Sequence 19, App1   |
| 80 | 7 | 2.5 | 456 | 2 | US-09-949-016-7812   | Sequence 7812, App  |
| 81 | 7 | 2.5 | 500 | 2 | US-09-252-991A-25142 | Sequence 25142, A   |
| 82 | 7 | 2.5 | 518 | 1 | US-09-141-000-2      | Sequence 2, App1    |
| 83 | 7 | 2.5 | 518 | 1 | US-08-836-620A-18    | Sequence 18, App1   |
| 84 | 7 | 2.5 | 519 | 2 | US-09-902-540-12431  | Sequence 12431, A   |
| 85 | 7 | 2.5 | 561 | 2 | US-09-758-759-149    | Sequence 149, App1  |
| 86 | 7 | 2.5 | 572 | 2 | US-09-107-433-3479   | Sequence 3479, App  |
| 87 | 7 | 2.5 | 579 | 2 | US-09-252-991A-27857 | Sequence 27857, App |
| 88 | 7 | 2.5 | 583 | 2 | US-09-583-110-3571   | Sequence 3571, App  |
| 89 | 7 | 2.5 | 600 | 2 | US-09-338-185A-23    | Sequence 23, App1   |
| 90 | 7 | 2.5 | 608 | 2 | US-09-583-110-3689   | Sequence 3689, App  |
| 91 | 7 | 2.5 | 606 | 2 | US-09-107-433-4369   | Sequence 4369, App  |
| 92 | 7 | 2.5 | 788 | 2 | US-09-538-092-567    | Sequence 567, App   |
| 93 | 7 | 2.5 | 832 | 2 | US-09-252-991A-11267 | Sequence 11267, A   |
| 94 | 7 | 2.5 | 998 | 2 | US-10-101-464A-914   | Sequence 914, App   |
| 95 | 6 | 2.2 | 8   | 3 | US-09-641-528B-3623  | Sequence 5623, App  |
| 96 | 6 | 2.2 | 9   | 3 | US-09-641-528B-5526  | Sequence 5526, App  |
| 97 | 6 | 2.2 | 9   | 3 | US-09-641-528B-5624  | Sequence 5624, App  |
| 98 | 6 | 2.2 | 9   | 3 | US-09-641-528B-22192 | Sequence 22192, A   |
| 99 | 6 | 2.2 | 9   | 3 | US-09-641-528B-51017 | Sequence 51017, A   |

|     |   |      |    |   |                      |                   |     |   |      |     |   |                      |                   |
|-----|---|------|----|---|----------------------|-------------------|-----|---|------|-----|---|----------------------|-------------------|
| 100 | 6 | 2, 2 | 10 | 2 | US-09-755-630B-125   | Sequence 125, App | 173 | 6 | 2, 2 | 74  | 2 | US-09-270-767-37734  | Sequence 37734, A |
| 101 | 6 | 2, 2 | 10 | 2 | US-10-658-180-125    | Sequence 125, App | 174 | 6 | 2, 2 | 74  | 2 | US-09-270-767-52951  | Sequence 52951, A |
| 102 | 6 | 2, 2 | 10 | 3 | US-09-641-528B-5502  | Sequence 5502, Ap | 175 | 6 | 2, 2 | 74  | 2 | US-09-248-796A-21015 | Sequence 21015, A |
| 103 | 6 | 2, 2 | 10 | 3 | US-09-641-528B-5527  | Sequence 5527, Ap | 176 | 6 | 2, 2 | 74  | 2 | US-09-248-796A-26883 | Sequence 26883, A |
| 104 | 6 | 2, 2 | 10 | 3 | US-09-641-528B-14151 | Sequence 14151, A | 177 | 6 | 2, 2 | 78  | 2 | US-10-178-213-314    | Sequence 314, App |
| 105 | 6 | 2, 2 | 10 | 3 | US-09-641-528B-22193 | Sequence 22193, A | 178 | 6 | 2, 2 | 78  | 2 | US-10-178-213-328    | Sequence 329, App |
| 106 | 6 | 2, 2 | 10 | 3 | US-09-641-528B-27296 | Sequence 27296, A | 179 | 6 | 2, 2 | 80  | 2 | US-09-252-991A-21677 | Sequence 21677, A |
| 107 | 6 | 2, 2 | 10 | 3 | US-09-641-528B-35429 | Sequence 35429, A | 180 | 6 | 2, 2 | 82  | 2 | US-09-198-452A-590   | Sequence 590, App |
| 108 | 6 | 2, 2 | 11 | 3 | US-09-641-528B-908   | Sequence 908, App | 181 | 6 | 2, 2 | 82  | 2 | US-10-178-213-35     | Sequence 35, App  |
| 109 | 6 | 2, 2 | 11 | 3 | US-09-641-528B-5503  | Sequence 5503, Ap | 182 | 6 | 2, 2 | 82  | 2 | US-10-178-213-341    | Sequence 341, App |
| 110 | 6 | 2, 2 | 11 | 3 | US-09-641-528B-14134 | Sequence 14134, A | 183 | 6 | 2, 2 | 83  | 2 | US-09-107-532A-5274  | Sequence 5274, Ap |
| 111 | 6 | 2, 2 | 11 | 3 | US-09-641-528B-14152 | Sequence 14152, A | 184 | 6 | 2, 2 | 83  | 2 | US-10-178-213-47     | Sequence 47, App  |
| 112 | 6 | 2, 2 | 11 | 3 | US-09-641-528B-22194 | Sequence 22194, A | 185 | 6 | 2, 2 | 84  | 2 | US-09-270-767-38797  | Sequence 38797, A |
| 113 | 6 | 2, 2 | 11 | 3 | US-09-641-528B-27297 | Sequence 27297, A | 186 | 6 | 2, 2 | 84  | 2 | US-09-270-767-54014  | Sequence 54014, A |
| 114 | 6 | 2, 2 | 11 | 3 | US-09-641-528B-27297 | Sequence 27297, A | 187 | 6 | 2, 2 | 84  | 2 | US-10-178-213-80     | Sequence 80, App  |
| 115 | 6 | 2, 2 | 11 | 3 | US-09-641-528B-35290 | Sequence 35290, A | 188 | 6 | 2, 2 | 84  | 2 | US-10-178-213-338    | Sequence 338, App |
| 116 | 6 | 2, 2 | 11 | 3 | US-09-641-528B-35430 | Sequence 35430, A | 189 | 6 | 2, 2 | 85  | 2 | US-10-178-213-338    | Sequence 338, App |
| 117 | 6 | 2, 2 | 11 | 3 | US-09-641-528B-45765 | Sequence 45765, A | 190 | 6 | 2, 2 | 85  | 2 | US-10-178-213-77     | Sequence 77, App  |
| 118 | 6 | 2, 2 | 15 | 3 | US-09-336-536-5      | Sequence 5, App   | 191 | 6 | 2, 2 | 86  | 2 | US-09-489-039A-8310  | Sequence 8310, Ap |
| 119 | 6 | 2, 2 | 15 | 3 | US-09-641-528B-47396 | Sequence 47396, A | 192 | 6 | 2, 2 | 86  | 2 | US-09-107-433-5131   | Sequence 5131, Ap |
| 120 | 6 | 2, 2 | 15 | 3 | US-09-641-528B-50686 | Sequence 50686, A | 193 | 6 | 2, 2 | 87  | 2 | US-09-149-476-457    | Sequence 457, App |
| 121 | 6 | 2, 2 | 18 | 2 | US-08-469-318-187    | Sequence 187, App | 194 | 6 | 2, 2 | 88  | 2 | US-09-621-976-5199   | Sequence 5199, Ap |
| 122 | 6 | 2, 2 | 18 | 2 | US-08-468-609A-187   | Sequence 187, App | 195 | 6 | 2, 2 | 88  | 2 | US-09-270-767-58476  | Sequence 58476, A |
| 123 | 6 | 2, 2 | 18 | 2 | US-08-875-533-28     | Sequence 28, App  | 196 | 6 | 2, 2 | 91  | 2 | US-09-270-767-39989  | Sequence 39989, A |
| 124 | 6 | 2, 2 | 18 | 2 | US-08-875-533-28     | Sequence 187, App | 197 | 6 | 2, 2 | 91  | 2 | US-09-385-219A-30    | Sequence 30, App  |
| 125 | 6 | 2, 2 | 18 | 2 | US-08-762-327A-187   | Sequence 187, App | 198 | 6 | 2, 2 | 92  | 2 | US-09-583-110-5077   | Sequence 5077, Ap |
| 126 | 6 | 2, 2 | 18 | 5 | PCT-US95-01185-187   | Sequence 187, App | 199 | 6 | 2, 2 | 94  | 2 | US-09-433-4275       | Sequence 4275, Ap |
| 127 | 6 | 2, 2 | 20 | 2 | US-09-162-934-18     | Sequence 187, App | 200 | 6 | 2, 2 | 95  | 2 | US-09-248-796A-18448 | Sequence 18448, A |
| 128 | 6 | 2, 2 | 20 | 2 | US-09-812-528-18     | Sequence 18, App  | 201 | 6 | 2, 2 | 95  | 2 | US-09-107-433-4343   | Sequence 4343, Ap |
| 129 | 6 | 2, 2 | 20 | 2 | US-09-643-657-25     | Sequence 18, App  | 202 | 6 | 2, 2 | 96  | 2 | US-09-352-991A-24821 | Sequence 24821, A |
| 130 | 6 | 2, 2 | 21 | 2 | US-09-643-657-25     | Sequence 25, App  | 203 | 6 | 2, 2 | 96  | 2 | US-09-621-976-5272   | Sequence 5272, Ap |
| 131 | 6 | 2, 2 | 22 | 2 | US-09-162-934-17     | Sequence 17, App  | 204 | 6 | 2, 2 | 96  | 2 | US-09-270-767-42429  | Sequence 42429, A |
| 132 | 6 | 2, 2 | 22 | 2 | US-09-812-528-17     | Sequence 17, App  | 205 | 6 | 2, 2 | 96  | 2 | US-10-104-047-3900   | Sequence 3900, Ap |
| 133 | 6 | 2, 2 | 27 | 2 | US-09-205-358-798    | Sequence 798, App | 206 | 6 | 2, 2 | 102 | 2 | US-09-513-999C-4428  | Sequence 4428, Ap |
| 134 | 6 | 2, 2 | 28 | 2 | US-10-004-860-798    | Sequence 798, App | 207 | 6 | 2, 2 | 102 | 2 | US-09-270-767-41172  | Sequence 41172, A |
| 135 | 6 | 2, 2 | 28 | 2 | US-09-019-095A-34    | Sequence 34, App  | 208 | 6 | 2, 2 | 106 | 2 | US-09-513-999C-4428  | Sequence 4428, Ap |
| 136 | 6 | 2, 2 | 33 | 1 | US-08-461-990B-4     | Sequence 4, App   | 209 | 6 | 2, 2 | 108 | 2 | US-09-134-001C-4708  | Sequence 4708, Ap |
| 137 | 6 | 2, 2 | 38 | 1 | US-08-530-290-17     | Sequence 17, App  | 210 | 6 | 2, 2 | 108 | 2 | US-09-621-976-5858   | Sequence 5858, Ap |
| 138 | 6 | 2, 2 | 39 | 2 | US-09-270-767-59714  | Sequence 59714, A | 211 | 6 | 2, 2 | 110 | 1 | US-08-466-886-29     | Sequence 29, App  |
| 139 | 6 | 2, 2 | 40 | 2 | US-09-380-061B-12    | Sequence 12, App  | 212 | 6 | 2, 2 | 110 | 2 | US-08-469-617-29     | Sequence 29, App  |
| 140 | 6 | 2, 2 | 43 | 2 | US-09-643-657-21     | Sequence 21, App  | 213 | 6 | 2, 2 | 110 | 2 | US-08-469-630-29     | Sequence 29, App  |
| 141 | 6 | 2, 2 | 44 | 2 | US-09-385-219A-63    | Sequence 63, App  | 214 | 6 | 2, 2 | 110 | 2 | US-08-252-778B-29    | Sequence 7842, Ap |
| 142 | 6 | 2, 2 | 45 | 2 | US-08-900-230-11     | Sequence 11, App  | 215 | 6 | 2, 2 | 111 | 2 | US-09-513-999C-7842  | Sequence 7842, Ap |
| 143 | 6 | 2, 2 | 48 | 2 | US-09-178-093B-41    | Sequence 41, App  | 216 | 6 | 2, 2 | 111 | 2 | US-10-104-047-3346   | Sequence 3346, Ap |
| 144 | 6 | 2, 2 | 49 | 2 | US-09-902-540-11563  | Sequence 11563, A | 217 | 6 | 2, 2 | 113 | 2 | US-09-816-772-9      | Sequence 9, App   |
| 145 | 6 | 2, 2 | 51 | 2 | US-09-513-999C-6456  | Sequence 6456, Ap | 218 | 6 | 2, 2 | 113 | 2 | US-09-107-532A-4226  | Sequence 4226, Ap |
| 146 | 6 | 2, 2 | 55 | 2 | US-09-902-540-15765  | Sequence 15765, A | 219 | 6 | 2, 2 | 113 | 2 | US-09-621-976-4026   | Sequence 4026, Ap |
| 147 | 6 | 2, 2 | 57 | 2 | US-09-270-767-34544  | Sequence 34544, A | 220 | 6 | 2, 2 | 113 | 2 | US-10-141-938A-9     | Sequence 9, App   |
| 148 | 6 | 2, 2 | 57 | 2 | US-09-270-767-38422  | Sequence 38422, A | 221 | 6 | 2, 2 | 114 | 1 | US-08-352-324A-3     | Sequence 3, App   |
| 149 | 6 | 2, 2 | 57 | 2 | US-09-270-767-49761  | Sequence 49761, A | 222 | 6 | 2, 2 | 114 | 1 | US-08-862-607-3      | Sequence 3, App   |
| 150 | 6 | 2, 2 | 61 | 2 | US-09-248-796A-24940 | Sequence 24940, A | 223 | 6 | 2, 2 | 114 | 1 | US-08-468-819-4      | Sequence 4, App   |
| 151 | 6 | 2, 2 | 61 | 2 | US-10-101-464A-774   | Sequence 774, App | 224 | 6 | 2, 2 | 114 | 2 | US-09-203-325-3      | Sequence 3, App   |
| 152 | 6 | 2, 2 | 63 | 2 | US-08-470-369-8      | Sequence 8, App   | 225 | 6 | 2, 2 | 114 | 2 | US-08-679-493A-149   | Sequence 149, App |
| 153 | 6 | 2, 2 | 63 | 7 | 5304637-7            | Sequence 8, App   | 226 | 6 | 2, 2 | 114 | 2 | US-09-213-383-4      | Sequence 4, App   |
| 154 | 6 | 2, 2 | 64 | 2 | US-09-248-796A-14318 | Sequence 14318, A | 227 | 6 | 2, 2 | 114 | 2 | US-09-588-044-3      | Sequence 3, App   |
| 155 | 6 | 2, 2 | 64 | 2 | US-09-902-540-15071  | Sequence 15071, A | 228 | 6 | 2, 2 | 114 | 2 | US-08-927-939A-52    | Sequence 52, App  |
| 156 | 6 | 2, 2 | 65 | 2 | US-09-248-796A-23316 | Sequence 23316, A | 229 | 6 | 2, 2 | 114 | 5 | PCT-US95-16144-3     | Sequence 3, App   |
| 157 | 6 | 2, 2 | 66 | 2 | US-09-621-976-7173   | Sequence 7173, Ap | 230 | 6 | 2, 2 | 115 | 2 | US-09-252-991A-18372 | Sequence 18372, A |
| 158 | 6 | 2, 2 | 66 | 2 | US-09-513-999C-4690  | Sequence 4690, Ap | 231 | 6 | 2, 2 | 117 | 2 | US-09-081-320-18     | Sequence 18, App  |
| 159 | 6 | 2, 2 | 67 | 2 | US-09-461-325-239    | Sequence 239, App | 232 | 6 | 2, 2 | 117 | 2 | US-09-574-141A-18    | Sequence 18, App  |
| 160 | 6 | 2, 2 | 67 | 2 | US-09-461-325-416    | Sequence 416, App | 233 | 6 | 2, 2 | 117 | 2 | US-09-707-780-18     | Sequence 18, App  |
| 161 | 6 | 2, 2 | 67 | 2 | US-10-012-542-339    | Sequence 239, App | 234 | 6 | 2, 2 | 117 | 2 | US-09-543-681A-4837  | Sequence 4837, Ap |
| 162 | 6 | 2, 2 | 67 | 2 | US-10-012-542-416    | Sequence 416, App | 235 | 6 | 2, 2 | 117 | 2 | US-09-568-189A-18    | Sequence 18, App  |
| 163 | 6 | 2, 2 | 67 | 2 | US-10-115-133-239    | Sequence 239, App | 236 | 6 | 2, 2 | 119 | 2 | US-09-513-999C-4283  | Sequence 4283, Ap |
| 164 | 6 | 2, 2 | 67 | 2 | US-10-115-133-239    | Sequence 416, App | 237 | 6 | 2, 2 | 119 | 2 | US-09-513-999C-4283  | Sequence 4284, Ap |
| 165 | 6 | 2, 2 | 69 | 2 | US-09-248-796A-21877 | Sequence 21877, A | 238 | 6 | 2, 2 | 121 | 2 | US-09-252-991A-28862 | Sequence 28862, A |
| 166 | 6 | 2, 2 | 70 | 2 | US-09-107-532A-6193  | Sequence 6193, Ap | 239 | 6 | 2, 2 | 121 | 2 | US-09-543-681A-6303  | Sequence 6303, Ap |
| 167 | 6 | 2, 2 | 70 | 2 | US-09-270-767-41716  | Sequence 41716, A | 240 | 6 | 2, 2 | 121 | 2 | US-09-727-739B-42    | Sequence 42, App  |
| 168 | 6 | 2, 2 | 70 | 2 | US-09-248-796A-26417 | Sequence 26417, A | 241 | 6 | 2, 2 | 122 | 2 | US-09-893-737-34     | Sequence 34, App  |
| 169 | 6 | 2, 2 | 72 | 2 | US-08-468-260A-233   | Sequence 233, App | 242 | 6 | 2, 2 | 122 | 2 | US-09-270-767-58078  | Sequence 58078, A |
| 170 | 6 | 2, 2 | 72 | 2 | US-08-488-446-233    | Sequence 233, App | 243 | 6 | 2, 2 | 124 | 2 | US-08-513-974B-349   | Sequence 349, App |
| 171 | 6 | 2, 2 | 72 | 2 | US-08-467-344A-233   | Sequence 233, App | 244 | 6 | 2, 2 | 125 | 2 | US-09-513-999C-4542  | Sequence 4542, Ap |
| 172 | 6 | 2, 2 | 72 | 2 | US-08-424-550B-233   | Sequence 233, App | 245 | 6 | 2, 2 | 126 | 2 | US-08-513-974B-350   | Sequence 350, App |

|     |   |     |     |   |                      |                    |     |   |     |     |   |                      |                   |
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| 246 | 6 | 2.2 | 127 | 2 | US-09-732-210-1685   | Sequence 1685, Ap  | 319 | 6 | 2.2 | 172 | 2 | US-09-248-796A-22984 | Sequence 22984, A |
| 247 | 6 | 2.2 | 128 | 2 | US-09-248-796A-20779 | Sequence 20779, A  | 320 | 6 | 2.2 | 180 | 2 | US-09-270-767-46827  | Sequence 46827, A |
| 248 | 6 | 2.2 | 129 | 2 | US-09-513-999C-6046  | Sequence 6046, Ap  | 321 | 6 | 2.2 | 181 | 2 | US-09-270-767-36377  | Sequence 36377, A |
| 249 | 6 | 2.2 | 130 | 2 | US-10-094-749-2939   | Sequence 2939, Ap  | 322 | 6 | 2.2 | 181 | 2 | US-09-270-767-51594  | Sequence 51594, A |
| 250 | 6 | 2.2 | 132 | 2 | US-09-205-258-796    | Sequence 796, App  | 323 | 6 | 2.2 | 182 | 2 | US-09-543-681A-5698  | Sequence 5698, Ap |
| 251 | 6 | 2.2 | 132 | 2 | US-09-254-180C-147   | Sequence 147, App  | 324 | 6 | 2.2 | 183 | 2 | US-09-438-185A-928   | Sequence 928, App |
| 252 | 6 | 2.2 | 132 | 2 | US-10-004-860-796    | Sequence 796, App  | 325 | 6 | 2.2 | 183 | 2 | US-09-902-540-12773  | Sequence 12773, A |
| 253 | 6 | 2.2 | 133 | 2 | US-09-252-991A-19912 | Sequence 19912, A  | 326 | 6 | 2.2 | 183 | 2 | US-10-094-749-2663   | Sequence 2663, Ap |
| 254 | 6 | 2.2 | 133 | 2 | US-10-104-047-2650   | Sequence 2650, Ap  | 327 | 6 | 2.2 | 185 | 2 | US-09-902-540-15977  | Sequence 15977, A |
| 255 | 6 | 2.2 | 134 | 2 | US-09-489-039A-10444 | Sequence 10444, A  | 328 | 6 | 2.2 | 186 | 2 | US-09-830-230A-480   | Sequence 480, App |
| 256 | 6 | 2.2 | 135 | 2 | US-09-252-991A-27592 | Sequence 27592, A  | 329 | 6 | 2.2 | 188 | 2 | US-09-107-433-3764   | Sequence 3764, Ap |
| 257 | 6 | 2.2 | 136 | 2 | US-09-248-796A-14660 | Sequence 14660, A  | 330 | 6 | 2.2 | 189 | 2 | US-09-270-767-46721  | Sequence 46721, A |
| 258 | 6 | 2.2 | 136 | 2 | US-09-513-999C-5062  | Sequence 5062, Ap  | 331 | 6 | 2.2 | 192 | 1 | US-08-086-428B-57    | Sequence 57, App1 |
| 259 | 6 | 2.2 | 138 | 2 | US-09-270-767-31870  | Sequence 31870, A  | 332 | 6 | 2.2 | 192 | 1 | US-08-468-570-57     | Sequence 57, App1 |
| 260 | 6 | 2.2 | 138 | 2 | US-09-270-767-47087  | Sequence 47087, A  | 333 | 6 | 2.2 | 192 | 1 | US-08-290-665A-57    | Sequence 57, App1 |
| 261 | 6 | 2.2 | 139 | 1 | US-08-680-726A-66    | Sequence 66, App1  | 334 | 6 | 2.2 | 192 | 2 | US-08-466-601A-57    | Sequence 57, App1 |
| 262 | 6 | 2.2 | 139 | 2 | US-09-092-409-66     | Sequence 66, App1  | 335 | 6 | 2.2 | 192 | 2 | US-09-949-016-7555   | Sequence 7555, Ap |
| 263 | 6 | 2.2 | 140 | 2 | US-09-893-737-118    | Sequence 118, App  | 336 | 6 | 2.2 | 192 | 5 | PCT-US95-10398-57    | Sequence 57, App1 |
| 264 | 6 | 2.2 | 142 | 2 | US-09-489-039A-7233  | Sequence 7233, Ap  | 337 | 6 | 2.2 | 194 | 2 | US-09-252-991A-22032 | Sequence 22032, A |
| 265 | 6 | 2.2 | 143 | 2 | US-09-489-039A-13298 | Sequence 13298, A  | 338 | 6 | 2.2 | 200 | 2 | US-09-578-458-13     | Sequence 13, App1 |
| 266 | 6 | 2.2 | 146 | 2 | US-09-270-767-33166  | Sequence 33166, A  | 339 | 6 | 2.2 | 200 | 2 | US-09-522-964A-13    | Sequence 13, App1 |
| 267 | 6 | 2.2 | 146 | 2 | US-09-270-767-48383  | Sequence 48383, A  | 340 | 6 | 2.2 | 202 | 2 | US-09-902-540-10034  | Sequence 10034, A |
| 268 | 6 | 2.2 | 146 | 2 | US-10-001-254-38     | Sequence 38, App1  | 341 | 6 | 2.2 | 203 | 1 | US-08-028-463-1      | Sequence 1, App1  |
| 269 | 6 | 2.2 | 147 | 2 | US-09-543-681A-5412  | Sequence 5412, Ap  | 342 | 6 | 2.2 | 203 | 1 | US-08-461-836-1      | Sequence 1, App1  |
| 270 | 6 | 2.2 | 147 | 2 | US-09-583-110-4437   | Sequence 4437, Ap  | 343 | 6 | 2.2 | 203 | 2 | US-09-252-991A-29989 | Sequence 29989, A |
| 271 | 6 | 2.2 | 148 | 2 | US-09-328-352-5350   | Sequence 5350, Ap  | 344 | 6 | 2.2 | 204 | 2 | US-09-902-540-12353  | Sequence 12353, A |
| 272 | 6 | 2.2 | 149 | 1 | US-08-602-010A-18    | Sequence 18, App1  | 345 | 6 | 2.2 | 205 | 1 | US-08-800-751-1      | Sequence 1, App1  |
| 273 | 6 | 2.2 | 149 | 1 | US-08-680-726A-18    | Sequence 18, App1  | 346 | 6 | 2.2 | 205 | 1 | US-08-990-818-1      | Sequence 1, App1  |
| 274 | 6 | 2.2 | 149 | 2 | US-09-092-409-18     | Sequence 18, App1  | 347 | 6 | 2.2 | 206 | 2 | US-09-248-796A-15989 | Sequence 15989, A |
| 275 | 6 | 2.2 | 149 | 2 | US-09-482-273-150    | Sequence 150, App  | 348 | 6 | 2.2 | 205 | 2 | US-09-489-039A-12129 | Sequence 12129, A |
| 276 | 6 | 2.2 | 149 | 2 | US-09-270-767-32526  | Sequence 32526, A  | 349 | 6 | 2.2 | 207 | 2 | US-09-413-814-85     | Sequence 85, App1 |
| 277 | 6 | 2.2 | 149 | 2 | US-09-270-767-47743  | Sequence 47743, A  | 350 | 6 | 2.2 | 207 | 2 | US-08-811-519-13     | Sequence 13, App1 |
| 278 | 6 | 2.2 | 150 | 2 | US-09-328-352-4574   | Sequence 4574, Ap  | 351 | 6 | 2.2 | 207 | 2 | US-08-811-519-15     | Sequence 15, App1 |
| 279 | 6 | 2.2 | 150 | 2 | US-09-893-737-230    | Sequence 230, App  | 352 | 6 | 2.2 | 207 | 2 | US-10-211-689-10     | Sequence 10, App1 |
| 280 | 6 | 2.2 | 150 | 7 | 5304637-1            | Patent No. 5304637 | 353 | 6 | 2.2 | 207 | 2 | US-10-211-689-12     | Sequence 12, App1 |
| 281 | 6 | 2.2 | 152 | 1 | US-08-284-393B-12    | Sequence 12, App1  | 354 | 6 | 2.2 | 208 | 2 | US-09-248-796A-19709 | Sequence 19709, A |
| 282 | 6 | 2.2 | 152 | 2 | US-08-470-369-2      | Sequence 2, App1   | 355 | 6 | 2.2 | 209 | 2 | US-09-893-737-126    | Sequence 126, App |
| 283 | 6 | 2.2 | 152 | 2 | US-09-316-081-2      | Sequence 2, App1   | 356 | 6 | 2.2 | 210 | 2 | US-09-461-325-189    | Sequence 189, App |
| 284 | 6 | 2.2 | 152 | 2 | US-09-578-458-2      | Sequence 2, App1   | 357 | 6 | 2.2 | 211 | 2 | US-10-012-542-189    | Sequence 189, App |
| 285 | 6 | 2.2 | 152 | 2 | US-09-522-964A-2     | Sequence 2, App1   | 358 | 6 | 2.2 | 211 | 2 | US-10-115-123-189    | Sequence 189, App |
| 286 | 6 | 2.2 | 152 | 2 | US-09-462-941-10     | Sequence 10, App1  | 359 | 6 | 2.2 | 211 | 2 | US-09-902-540-12092  | Sequence 12092, A |
| 287 | 6 | 2.2 | 152 | 2 | US-09-975-132A-25    | Sequence 25, App1  | 360 | 6 | 2.2 | 212 | 2 | US-09-902-540-13151  | Sequence 13151, A |
| 288 | 6 | 2.2 | 152 | 5 | PCT-US95-08950-12    | Sequence 12, App1  | 361 | 6 | 2.2 | 213 | 2 | US-09-902-540-12621  | Sequence 12621, A |
| 289 | 6 | 2.2 | 154 | 2 | US-08-973-068-9      | Sequence 9, App1   | 362 | 6 | 2.2 | 213 | 2 | US-09-830-230A-489   | Sequence 489, App |
| 290 | 6 | 2.2 | 154 | 2 | US-09-198-452A-247   | Sequence 247, App  | 363 | 6 | 2.2 | 213 | 2 | US-09-248-528-9      | Sequence 9, App1  |
| 291 | 6 | 2.2 | 155 | 2 | US-09-949-016-7932   | Sequence 7932, Ap  | 364 | 6 | 2.2 | 214 | 2 | US-09-549-111-9      | Sequence 9, App1  |
| 292 | 6 | 2.2 | 157 | 1 | US-08-706-214-4      | Sequence 4, App1   | 365 | 6 | 2.2 | 214 | 2 | US-09-549-111-9      | Sequence 9, App1  |
| 293 | 6 | 2.2 | 157 | 2 | US-08-350-468-6      | Sequence 6, App1   | 366 | 6 | 2.2 | 214 | 2 | US-09-549-111-9      | Sequence 9, App1  |
| 294 | 6 | 2.2 | 158 | 2 | US-08-679-493A-24    | Sequence 24, App1  | 367 | 6 | 2.2 | 214 | 2 | US-09-550-394-9      | Sequence 9, App1  |
| 295 | 6 | 2.2 | 158 | 2 | US-09-543-681A-7445  | Sequence 7445, Ap  | 368 | 6 | 2.2 | 214 | 2 | US-09-252-991A-22492 | Sequence 22492, A |
| 296 | 6 | 2.2 | 158 | 2 | US-09-107-433-3527   | Sequence 3527, Ap  | 369 | 6 | 2.2 | 214 | 2 | US-09-710-279-1898   | Sequence 1898, Ap |
| 297 | 6 | 2.2 | 158 | 2 | US-09-438-185A-239   | Sequence 239, App  | 370 | 6 | 2.2 | 214 | 2 | US-10-211-689-14     | Sequence 14, App1 |
| 298 | 6 | 2.2 | 159 | 2 | US-09-252-991A-17625 | Sequence 17625, A  | 371 | 6 | 2.2 | 217 | 2 | US-09-416-500C-1     | Sequence 1, App1  |
| 299 | 6 | 2.2 | 160 | 2 | US-09-270-767-58820  | Sequence 58820, A  | 372 | 6 | 2.2 | 217 | 2 | US-09-311-021-120    | Sequence 120, App |
| 300 | 6 | 2.2 | 161 | 1 | US-08-386-819A-25    | Sequence 25, App1  | 373 | 6 | 2.2 | 217 | 2 | US-09-328-352-7448   | Sequence 7448, Ap |
| 301 | 6 | 2.2 | 161 | 2 | US-08-980-357-25     | Sequence 25, App1  | 374 | 6 | 2.2 | 220 | 2 | US-09-710-279-360    | Sequence 360, App |
| 302 | 6 | 2.2 | 161 | 2 | US-09-357-375-25     | Sequence 25, App1  | 375 | 6 | 2.2 | 221 | 2 | US-09-605-703B-2640  | Sequence 2640, Ap |
| 303 | 6 | 2.2 | 163 | 2 | US-09-252-991A-28240 | Sequence 28240, A  | 376 | 6 | 2.2 | 224 | 2 | US-09-710-279-1002   | Sequence 1002, Ap |
| 304 | 6 | 2.2 | 163 | 2 | US-09-248-796A-20196 | Sequence 20196, A  | 377 | 6 | 2.2 | 224 | 2 | US-09-509-744-7      | Sequence 7, App1  |
| 309 | 6 | 2.2 | 166 | 2 | US-09-583-110-4307   | Sequence 4307, Ap  | 382 | 6 | 2.2 | 228 | 2 | US-09-902-540-14499  | Sequence 14499, A |
| 310 | 6 | 2.2 | 168 | 2 | US-09-252-991A-23198 | Sequence 23198, A  | 383 | 6 | 2.2 | 229 | 2 | US-09-991-181-258    | Sequence 258, App |
| 311 | 6 | 2.2 | 168 | 2 | US-09-489-039A-7835  | Sequence 7835, Ap  | 384 | 6 | 2.2 | 229 | 2 | US-09-990-444-258    | Sequence 258, App |
| 312 | 6 | 2.2 | 169 | 2 | US-09-316-081-4      | Sequence 4, App1   | 385 | 6 | 2.2 | 229 | 2 | US-09-997-333-258    | Sequence 258, App |
| 313 | 6 | 2.2 | 169 | 2 | US-09-578-458-4      | Sequence 4, App1   | 386 | 6 | 2.2 | 229 | 2 | US-09-992-598-258    | Sequence 258, App |
| 314 | 6 | 2.2 | 169 | 2 | US-09-522-964A-4     | Sequence 4, App1   | 387 | 6 | 2.2 | 229 | 2 | US-09-989-735-258    | Sequence 258, App |
| 315 | 6 | 2.2 | 170 | 2 | US-09-708-392-15     | Sequence 15, App1  | 388 | 6 | 2.2 | 229 | 3 | US-09-989-726-258    | Sequence 258, App |
| 316 | 6 | 2.2 | 170 | 2 | US-09-708-392-17     | Sequence 17, App1  | 389 | 6 | 2.2 | 229 | 3 | US-09-997-514-258    | Sequence 258, App |
| 317 | 6 | 2.2 | 170 | 2 | US-09-107-433-3486   | Sequence 3486, Ap  | 390 | 6 | 2.2 | 229 | 3 | US-09-989-726-258    | Sequence 258, App |
| 318 | 6 | 2.2 | 170 | 2 | US-09-949-016-6352   | Sequence 6352, Ap  | 391 | 6 | 2.2 | 229 | 3 | US-09-997-349-258    | Sequence 258, App |

|     |   |     |     |   |                      |                   |     |   |     |     |   |                      |                   |
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| 392 | 6 | 2.2 | 229 | 3 | US-09-997-653-258    | Sequence 258, App | 465 | 6 | 2.2 | 282 | 2 | US-09-247-890-16     | Sequence 16, App1 |
| 393 | 6 | 2.2 | 229 | 3 | US-09-989-293A-258   | Sequence 258, App | 466 | 6 | 2.2 | 282 | 2 | US-09-724-969-16     | Sequence 16, App1 |
| 394 | 6 | 2.2 | 231 | 2 | US-09-270-767-31808  | Sequence 31808, A | 467 | 6 | 2.2 | 282 | 2 | US-09-724-852-16     | Sequence 16, App1 |
| 395 | 6 | 2.2 | 231 | 2 | US-09-270-767-47025  | Sequence 47025, A | 468 | 6 | 2.2 | 282 | 2 | US-09-907-794A-127   | Sequence 127, App |
| 396 | 6 | 2.2 | 232 | 2 | US-09-270-767-44865  | Sequence 44865, A | 469 | 6 | 2.2 | 282 | 2 | US-09-905-1258A-127  | Sequence 127, App |
| 397 | 6 | 2.2 | 232 | 2 | US-09-902-540-9882   | Sequence 9882, Ap | 470 | 6 | 2.2 | 282 | 2 | US-09-902-775A-127   | Sequence 127, App |
| 398 | 6 | 2.2 | 232 | 2 | US-09-902-540-12067  | Sequence 12067, A | 471 | 6 | 2.2 | 282 | 2 | US-09-906-700-127    | Sequence 127, App |
| 399 | 6 | 2.2 | 240 | 2 | US-09-270-767-36552  | Sequence 36552, A | 472 | 6 | 2.2 | 282 | 2 | US-09-808-847-1      | Sequence 1, App1  |
| 400 | 6 | 2.2 | 240 | 2 | US-09-270-767-51769  | Sequence 51769, A | 473 | 6 | 2.2 | 282 | 2 | US-09-903-603A-127   | Sequence 127, App |
| 401 | 6 | 2.2 | 241 | 2 | US-09-198-452A-615   | Sequence 615, App | 474 | 6 | 2.2 | 282 | 2 | US-09-904-920A-127   | Sequence 127, App |
| 402 | 6 | 2.2 | 241 | 2 | US-09-248-796A-15234 | Sequence 15234, A | 475 | 6 | 2.2 | 282 | 2 | US-09-909-064-127    | Sequence 127, App |
| 403 | 6 | 2.2 | 241 | 2 | US-09-438-185A-575   | Sequence 575, App | 476 | 6 | 2.2 | 282 | 2 | US-09-905-381A-127   | Sequence 127, App |
| 404 | 6 | 2.2 | 242 | 2 | US-09-684-725-2      | Sequence 2, App1  | 477 | 6 | 2.2 | 282 | 2 | US-09-906-618-127    | Sequence 127, App |
| 405 | 6 | 2.2 | 242 | 2 | US-09-902-540-14422  | Sequence 14422, A | 478 | 6 | 2.2 | 282 | 2 | US-09-906-646-127    | Sequence 127, App |
| 406 | 6 | 2.2 | 243 | 2 | US-09-140-804-2      | Sequence 2, App1  | 479 | 6 | 2.2 | 282 | 2 | US-09-904-462-127    | Sequence 127, App |
| 407 | 6 | 2.2 | 243 | 2 | US-09-336-536-3      | Sequence 3, App1  | 480 | 6 | 2.2 | 282 | 2 | US-09-902-736A-127   | Sequence 127, App |
| 408 | 6 | 2.2 | 243 | 2 | US-09-686-838B-2     | Sequence 2, App1  | 481 | 6 | 2.2 | 282 | 2 | US-09-906-722A-127   | Sequence 127, App |
| 409 | 6 | 2.2 | 243 | 2 | US-09-866-028-42     | Sequence 42, App1 | 482 | 6 | 2.2 | 282 | 2 | US-09-905-449-127    | Sequence 127, App |
| 410 | 6 | 2.2 | 243 | 2 | US-09-944-457-42     | Sequence 42, App1 | 483 | 6 | 2.2 | 282 | 2 | US-09-903-562B-127   | Sequence 127, App |
| 411 | 6 | 2.2 | 243 | 2 | US-09-945-584-42     | Sequence 42, App1 | 484 | 6 | 2.2 | 282 | 2 | US-09-906-679A-127   | Sequence 127, App |
| 412 | 6 | 2.2 | 243 | 2 | US-09-944-944-42     | Sequence 42, App1 | 485 | 6 | 2.2 | 282 | 2 | US-09-907-841-127    | Sequence 127, App |
| 413 | 6 | 2.2 | 243 | 2 | US-09-945-587-42     | Sequence 42, App1 | 486 | 6 | 2.2 | 283 | 2 | US-09-583-110-3146   | Sequence 1146, Ap |
| 414 | 6 | 2.2 | 243 | 3 | US-09-944-884-42     | Sequence 42, App1 | 487 | 6 | 2.2 | 283 | 2 | US-09-248-796A-14990 | Sequence 14990, A |
| 415 | 6 | 2.2 | 244 | 1 | US-08-762-129-3      | Sequence 3, App1  | 488 | 6 | 2.2 | 283 | 2 | US-09-502-540-13146  | Sequence 13146, A |
| 416 | 6 | 2.2 | 245 | 2 | US-09-724-797-14     | Sequence 14, App1 | 489 | 6 | 2.2 | 286 | 2 | US-09-252-991A-18407 | Sequence 18407, A |
| 417 | 6 | 2.2 | 245 | 2 | US-10-104-047-3466   | Sequence 3466, Ap | 490 | 6 | 2.2 | 288 | 2 | US-09-270-767-57293  | Sequence 57293, A |
| 418 | 6 | 2.2 | 246 | 2 | US-08-822-774-43     | Sequence 43, App1 | 491 | 6 | 2.2 | 289 | 2 | US-09-270-767-39365  | Sequence 39365, A |
| 419 | 6 | 2.2 | 246 | 2 | US-09-632-711-43     | Sequence 43, App1 | 492 | 6 | 2.2 | 289 | 2 | US-09-270-767-54582  | Sequence 54582, A |
| 420 | 6 | 2.2 | 246 | 2 | US-09-632-703B-43    | Sequence 43, App1 | 493 | 6 | 2.2 | 291 | 2 | US-09-252-991A-22826 | Sequence 22826, A |
| 421 | 6 | 2.2 | 246 | 2 | US-09-632-702-43     | Sequence 43, App1 | 494 | 6 | 2.2 | 292 | 2 | US-09-902-540-9923   | Sequence 9923, Ap |
| 422 | 6 | 2.2 | 246 | 2 | US-09-252-991A-20050 | Sequence 20050, A | 495 | 6 | 2.2 | 293 | 2 | US-09-902-540-16212  | Sequence 16212, A |
| 423 | 6 | 2.2 | 246 | 2 | US-09-399-003-43     | Sequence 43, App1 | 496 | 6 | 2.2 | 293 | 2 | US-10-088-744A-12    | Sequence 12, App1 |
| 424 | 6 | 2.2 | 246 | 2 | US-09-248-796A-16241 | Sequence 16241, A | 497 | 6 | 2.2 | 296 | 2 | US-09-270-767-45391  | Sequence 45391, A |
| 425 | 6 | 2.2 | 248 | 2 | US-09-543-681A-6704  | Sequence 6704, Ap | 498 | 6 | 2.2 | 296 | 2 | US-10-088-744A-10    | Sequence 10, App1 |
| 426 | 6 | 2.2 | 248 | 2 | US-09-031-219-3      | Sequence 3, App1  | 499 | 6 | 2.2 | 297 | 2 | US-09-902-540-12967  | Sequence 12967, A |
| 427 | 6 | 2.2 | 248 | 2 | US-09-660-541-3      | Sequence 3, App1  | 500 | 6 | 2.2 | 298 | 2 | US-09-489-039A-12184 | Sequence 12184, A |
| 428 | 6 | 2.2 | 249 | 2 | US-09-270-767-44289  | Sequence 44289, A | 501 | 6 | 2.2 | 298 | 2 | US-09-107-433-4360   | Sequence 4360, Ap |
| 429 | 6 | 2.2 | 252 | 2 | US-09-134-001C-4662  | Sequence 4662, A  | 502 | 6 | 2.2 | 298 | 2 | US-09-902-540-15021  | Sequence 15021, A |
| 430 | 6 | 2.2 | 253 | 2 | US-08-858-207A-299   | Sequence 299, App | 503 | 6 | 2.2 | 299 | 2 | US-09-270-767-46185  | Sequence 46185, A |
| 431 | 6 | 2.2 | 255 | 2 | US-09-902-540-12539  | Sequence 12539, A | 504 | 6 | 2.2 | 302 | 2 | US-09-198-452A-18    | Sequence 18, App1 |
| 432 | 6 | 2.2 | 260 | 2 | US-09-252-991A-31232 | Sequence 31232, A | 505 | 6 | 2.2 | 304 | 2 | US-09-438-185A-9     | Sequence 9, App1  |
| 433 | 6 | 2.2 | 261 | 2 | US-09-328-352-6882   | Sequence 6882, Ap | 506 | 6 | 2.2 | 308 | 2 | US-09-711-164-392    | Sequence 392, App |
| 434 | 6 | 2.2 | 261 | 2 | US-09-248-796A-18760 | Sequence 18760, A | 507 | 6 | 2.2 | 310 | 2 | US-09-107-433-4360   | Sequence 4360, Ap |
| 435 | 6 | 2.2 | 263 | 2 | US-09-543-681A-7789  | Sequence 7789, Ap | 508 | 6 | 2.2 | 314 | 2 | US-09-489-039A-8837  | Sequence 8837, Ap |
| 436 | 6 | 2.2 | 264 | 2 | US-09-252-991A-30908 | Sequence 30908, A | 509 | 6 | 2.2 | 315 | 5 | PCT-US93-08528-34    | Sequence 34, App1 |
| 437 | 6 | 2.2 | 265 | 2 | US-09-252-991A-22607 | Sequence 22607, A | 510 | 6 | 2.2 | 315 | 5 | US-09-489-039A-8116  | Sequence 8116, Ap |
| 438 | 6 | 2.2 | 267 | 2 | US-09-449-218D-43    | Sequence 43, App1 | 511 | 6 | 2.2 | 317 | 2 | US-09-489-039A-8116  | Sequence 8116, Ap |
| 439 | 6 | 2.2 | 267 | 2 | US-09-668-529A-43    | Sequence 43, App1 | 512 | 6 | 2.2 | 319 | 2 | US-09-603-208A-80    | Sequence 80, App1 |
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| 444 | 6 | 2.2 | 267 | 2 | US-09-602-777A-158   | Sequence 158, App | 517 | 6 | 2.2 | 322 | 2 | US-09-907-794A-201   | Sequence 201, App |
| 445 | 6 | 2.2 | 268 | 2 | US-09-383-586-14     | Sequence 14, App1 | 518 | 6 | 2.2 | 322 | 2 | US-09-905-125A-201   | Sequence 201, App |
| 446 | 6 | 2.2 | 268 | 2 | US-09-134-001C-3064  | Sequence 3064, Ap | 519 | 6 | 2.2 | 322 | 2 | US-09-905-125A-201   | Sequence 201, App |
| 447 | 6 | 2.2 | 268 | 2 | US-09-823-038A-14    | Sequence 14, App1 | 520 | 6 | 2.2 | 322 | 2 | US-09-906-700-201    | Sequence 201, App |
| 448 | 6 | 2.2 | 269 | 2 | US-09-270-767-43140  | Sequence 43140, A | 521 | 6 | 2.2 | 322 | 2 | US-09-903-603A-201   | Sequence 201, App |
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| 451 | 6 | 2.2 | 273 | 2 | US-09-328-352-6316   | Sequence 6316, Ap | 524 | 6 | 2.2 | 322 | 2 | US-09-905-381A-201   | Sequence 201, App |
| 452 | 6 | 2.2 | 274 | 2 | US-09-583-110-3631   | Sequence 3631, Ap | 525 | 6 | 2.2 | 322 | 2 | US-09-906-618-201    | Sequence 201, App |
| 453 | 6 | 2.2 | 274 | 2 | US-09-602-777A-354   | Sequence 354, App | 526 | 6 | 2.2 | 322 | 2 | US-09-906-646-201    | Sequence 201, App |
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| 456 | 6 | 2.2 | 276 | 2 | US-09-949-016-9720   | Sequence 9720, Ap | 529 | 6 | 2.2 | 322 | 2 | US-09-906-722A-201   | Sequence 201, App |
| 457 | 6 | 2.2 | 277 | 2 | US-09-383-110-2679   | Sequence 2679, Ap | 530 | 6 | 2.2 | 322 | 2 | US-09-905-449-201    | Sequence 201, App |
| 458 | 6 | 2.2 | 277 | 2 | US-09-538-092-485    | Sequence 485, App | 531 | 6 | 2.2 | 322 | 2 | US-09-905-562B-201   | Sequence 201, App |
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| 460 | 6 | 2.2 | 278 | 2 | US-09-769-787-19     | Sequence 19, App1 | 533 | 6 | 2.2 | 322 | 3 | US-09-907-841-201    | Sequence 201, App |
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| 463 | 6 | 2.2 | 279 | 2 | US-09-107-532A-6493  | Sequence 6493, Ap | 536 | 6 | 2.2 | 325 | 1 | US-08-118-270-51     | Sequence 51, App1 |
| 464 | 6 | 2.2 | 281 | 2 | US-09-252-991A-29816 | Sequence 29816, A | 537 | 6 | 2.2 | 325 | 2 | US-09-605-703B-2110  | Sequence 2110, Ap |

|     |   |     |     |   |                      |                   |      |   |     |     |   |                      |                   |
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| 544 | 6 | 2.2 | 331 | 2 | US-09-252-991A-20319 | Sequence 20319, A | 617  | 6 | 2.2 | 383 | 2 | US-09-949-016-7114   | Sequence 7114, Ap |
| 545 | 6 | 2.2 | 331 | 2 | US-09-903-190-116    | Sequence 116, App | 618  | 6 | 2.2 | 383 | 2 | US-09-949-016-7115   | Sequence 7115, Ap |
| 546 | 6 | 2.2 | 332 | 2 | US-09-252-991A-24064 | Sequence 24064, A | 619  | 6 | 2.2 | 385 | 2 | US-09-587-754-2      | Sequence 2, Appl1 |
| 547 | 6 | 2.2 | 333 | 2 | US-09-248-796A-19426 | Sequence 19426, A | 620  | 6 | 2.2 | 386 | 2 | US-09-058-725B-4     | Sequence 4, Appl1 |
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| 549 | 6 | 2.2 | 337 | 2 | US-09-252-991A-26243 | Sequence 26243, A | 622  | 6 | 2.2 | 387 | 2 | US-09-252-991A-22733 | Sequence 22733, A |
| 550 | 6 | 2.2 | 338 | 2 | US-09-134-000C-4541  | Sequence 4541, Ap | 623  | 6 | 2.2 | 388 | 2 | US-09-134-001C-3820  | Sequence 3820, Ap |
| 551 | 6 | 2.2 | 339 | 2 | US-09-270-767-42493  | Sequence 42493, A | 624  | 6 | 2.2 | 389 | 1 | US-08-789-354-2      | Sequence 2, Appl1 |
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| 553 | 6 | 2.2 | 343 | 1 | US-08-878-989-5      | Sequence 5, Appl1 | 626  | 6 | 2.2 | 389 | 2 | US-09-058-725B-2     | Sequence 2, Appl1 |
| 554 | 6 | 2.2 | 343 | 2 | US-09-272-796-5      | Sequence 5, Appl1 | 627  | 6 | 2.2 | 389 | 2 | US-09-332-857-2      | Sequence 2, Appl1 |
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| 557 | 6 | 2.2 | 344 | 2 | US-09-771-161A-173   | Sequence 173, App | 630  | 6 | 2.2 | 395 | 3 | US-09-609-146-25     | Sequence 25, Appl |
| 558 | 6 | 2.2 | 345 | 2 | US-09-583-110-2776   | Sequence 2776, Ap | 631  | 6 | 2.2 | 397 | 1 | US-08-647-928-8      | Sequence 8, Appl1 |
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| 560 | 6 | 2.2 | 346 | 2 | US-09-808-701A-32    | Sequence 32, Appl | 633  | 6 | 2.2 | 397 | 2 | US-09-949-016-10639  | Sequence 10639, A |
| 561 | 6 | 2.2 | 346 | 2 | US-10-152-886-91     | Sequence 91, Appl | 634  | 6 | 2.2 | 397 | 2 | US-09-949-016-10640  | Sequence 10640, A |
| 562 | 6 | 2.2 | 346 | 5 | PCT-US96-10602-2     | Sequence 2, Appl1 | 635  | 6 | 2.2 | 398 | 2 | US-09-252-991A-19848 | Sequence 19848, A |
| 563 | 6 | 2.2 | 350 | 1 | US-07-759-568-3      | Sequence 3, Appl1 | 636  | 6 | 2.2 | 399 | 2 | US-09-252-991A-22529 | Sequence 22529, A |
| 564 | 6 | 2.2 | 350 | 2 | US-08-430-286A-8     | Sequence 8, Appl1 | 637  | 6 | 2.2 | 403 | 1 | US-09-248-796A-19835 | Sequence 19835, A |
| 565 | 6 | 2.2 | 350 | 2 | US-09-826-509-499    | Sequence 499, App | 638  | 6 | 2.2 | 403 | 1 | US-08-483-695-5      | Sequence 5, Appl1 |
| 566 | 6 | 2.2 | 351 | 1 | US-08-843-530B-31    | Sequence 31, Appl | 639  | 6 | 2.2 | 403 | 1 | US-07-965-285-5      | Sequence 5, Appl1 |
| 567 | 6 | 2.2 | 351 | 2 | US-09-636-728-28     | Sequence 28, Appl | 640  | 6 | 2.2 | 403 | 1 | US-08-487-231-5      | Sequence 5, Appl1 |
| 568 | 6 | 2.2 | 354 | 2 | US-09-543-681A-6524  | Sequence 6524, Ap | 641  | 6 | 2.2 | 403 | 2 | US-09-201-912-5      | Sequence 5, Appl1 |
| 569 | 6 | 2.2 | 354 | 2 | US-09-248-796A-18591 | Sequence 18591, A | 642  | 6 | 2.2 | 405 | 3 | US-09-446-628-8      | Sequence 8, Appl1 |
| 570 | 6 | 2.2 | 356 | 2 | US-09-328-352-4597   | Sequence 4597, Ap | 643  | 6 | 2.2 | 409 | 2 | US-09-134-000C-5085  | Sequence 5085, Ap |
| 571 | 6 | 2.2 | 356 | 2 | US-09-107-433-3713   | Sequence 3713, Ap | 644  | 6 | 2.2 | 410 | 2 | US-09-198-452A-730   | Sequence 730, App |
| 572 | 6 | 2.2 | 357 | 2 | US-09-489-039A-14100 | Sequence 14100, A | 645  | 6 | 2.2 | 411 | 2 | US-09-902-540-12516  | Sequence 12516, A |
| 573 | 6 | 2.2 | 358 | 1 | US-08-458-970A-11    | Sequence 11, Appl | 646  | 6 | 2.2 | 412 | 2 | US-09-949-016-10101  | Sequence 10101, A |
| 574 | 6 | 2.2 | 358 | 2 | US-09-489-039A-9326  | Sequence 9326, Ap | 647  | 6 | 2.2 | 412 | 2 | US-10-088-744A-6     | Sequence 4, Appl1 |
| 575 | 6 | 2.2 | 358 | 2 | US-09-230-896C-29    | Sequence 29, Appl | 648  | 6 | 2.2 | 412 | 2 | US-10-088-744A-8     | Sequence 8, Appl1 |
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| 577 | 6 | 2.2 | 359 | 1 | US-08-041-219A-6     | Sequence 6, Appl1 | 650  | 6 | 2.2 | 413 | 2 | US-09-270-767-50141  | Sequence 50141, A |
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| 579 | 6 | 2.2 | 359 | 1 | US-08-417-122-6      | Sequence 6, Appl1 | 652  | 6 | 2.2 | 415 | 2 | US-09-545-944-2      | Sequence 2, Appl1 |
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| 582 | 6 | 2.2 | 361 | 2 | US-09-252-991A-27989 | Sequence 27989, A | 655  | 6 | 2.2 | 415 | 2 | US-09-875-076-12     | Sequence 12, Appl |
| 583 | 6 | 2.2 | 361 | 2 | US-09-438-046-13     | Sequence 43794, A | 656  | 6 | 2.2 | 415 | 2 | US-10-215-613-2      | Sequence 2, Appl1 |
| 584 | 6 | 2.2 | 364 | 2 | US-09-949-016-10274  | Sequence 10274, A | 657  | 6 | 2.2 | 415 | 2 | US-10-088-744A-2     | Sequence 2, Appl1 |
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| 586 | 6 | 2.2 | 364 | 2 | US-09-830-230A-205   | Sequence 205, App | 659  | 6 | 2.2 | 415 | 3 | US-09-609-146-4      | Sequence 4, Appl1 |
| 587 | 6 | 2.2 | 366 | 1 | US-08-481-377-6      | Sequence 6, Appl1 | 660  | 6 | 2.2 | 416 | 2 | US-09-252-991A-37714 | Sequence 37714, A |
| 588 | 6 | 2.2 | 366 | 2 | US-08-827-336-9      | Sequence 9, Appl1 | 661  | 6 | 2.2 | 417 | 2 | US-08-462-467B-10    | Sequence 10, Appl |
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| 590 | 6 | 2.2 | 366 | 2 | US-09-389-705-6      | Sequence 6, Appl1 | 663  | 6 | 2.2 | 418 | 2 | US-10-104-047-2420   | Sequence 2420, Ap |
| 591 | 6 | 2.2 | 366 | 2 | US-09-357-905-9      | Sequence 9, Appl1 | 664  | 6 | 2.2 | 419 | 1 | US-08-574-959A-4     | Sequence 4, Appl1 |
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| 594 | 6 | 2.2 | 366 | 2 | US-09-270-767-48144  | Sequence 48144, A | 667  | 6 | 2.2 | 421 | 2 | US-10-104-047-3520   | Sequence 3520, Ap |
| 595 | 6 | 2.2 | 366 | 2 | US-09-949-016-9795   | Sequence 9795, Ap | 668  | 6 | 2.2 | 422 | 1 | US-08-758-621-12     | Sequence 12, Appl |
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| 597 | 6 | 2.2 | 367 | 5 | PCT-US94-00666-6     | Sequence 6, Appl1 | 670  | 6 | 2.2 | 422 | 2 | US-09-579-174-12     | Sequence 12, Appl |
| 598 | 6 | 2.2 | 367 | 1 | US-08-440-103-17     | Sequence 17, Appl | 671  | 6 | 2.2 | 423 | 2 | US-09-252-991A-19042 | Sequence 19042, A |
| 599 | 6 | 2.2 | 367 | 1 | US-08-440-542-17     | Sequence 17, Appl | 672  | 6 | 2.2 | 423 | 2 | US-09-252-991A-10653 | Sequence 10653, A |
| 600 | 6 | 2.2 | 367 | 1 | US-08-231-368-17     | Sequence 17, Appl | 673  | 6 | 2.2 | 423 | 2 | US-09-438-185A-682   | Sequence 682, App |
| 601 | 6 | 2.2 | 367 | 1 | US-08-440-210-17     | Sequence 17, Appl | 674  | 6 | 2.2 | 424 | 2 | US-09-615-192A-328   | Sequence 328, App |
| 602 | 6 | 2.2 | 367 | 2 | US-09-046-604-17     | Sequence 17, Appl | 675  | 6 | 2.2 | 424 | 2 | US-09-684-855-18     | Sequence 138, App |
| 603 | 6 | 2.2 | 368 | 2 | US-09-489-039A-9556  | Sequence 9556, Ap | 676  | 6 | 2.2 | 424 | 2 | US-09-688-286D-2     | Sequence 2, Appl1 |
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| 605 | 6 | 2.2 | 369 | 2 | US-09-710-279-1390   | Sequence 1390, Ap | 678  | 6 | 2.2 | 427 | 2 | US-09-134-001C-5397  | Sequence 5397, Ap |
| 606 | 6 | 2.2 | 369 | 2 | US-09-710-279-1610   | Sequence 1610, Ap | 679  | 6 | 2.2 | 429 | 2 | US-08-795-876-44     | Sequence 44, Appl |
| 607 | 6 | 2.2 | 373 | 2 | US-09-538-092-683    | Sequence 683, App | 680  | 6 | 2.2 | 430 | 1 | US-08-290-731C-9     | Sequence 9, Appl1 |
| 608 | 6 | 2.2 | 374 | 2 | US-09-270-767-42761  | Sequence 42761, A | 681  | 6 | 2.2 | 430 | 2 | US-09-902-540-13985  | Sequence 13985, A |
| 609 | 6 | 2.2 | 375 | 1 | US-08-363-255-7      | Sequence 7, Appl1 | 682  | 6 | 2.2 | 431 | 2 | US-08-985-950-14     | Sequence 14, Appl |
| 610 | 6 | 2.2 | 377 | 2 | US-09-252-991A-20479 | Sequence 20479, A | 683  | 6 | 2.2 | 431 | 2 | US-08-985-950-20     | Sequence 20, Appl |

|     |   |     |     |   |                      |                    |     |   |     |     |   |                      |                   |
|-----|---|-----|-----|---|----------------------|--------------------|-----|---|-----|-----|---|----------------------|-------------------|
| 684 | 6 | 2.2 | 431 | 2 | US-09-546-049-14     | Sequence 14, Appl  | 757 | 6 | 2.2 | 481 | 2 | US-09-902-540-15717  | Sequence 15717, A |
| 685 | 6 | 2.2 | 431 | 2 | US-09-546-049-20     | Sequence 20, Appl  | 758 | 6 | 2.2 | 482 | 1 | US-07-792-885A-1     | Sequence 1, Appl1 |
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| 687 | 6 | 2.2 | 434 | 2 | US-09-248-796A-17833 | Sequence 17833, A  | 760 | 6 | 2.2 | 482 | 1 | US-08-869-477-7      | Sequence 7, Appl1 |
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| 689 | 6 | 2.2 | 436 | 2 | US-09-315-444-112    | Sequence 112, App  | 762 | 6 | 2.2 | 482 | 2 | US-09-733-383-4      | Sequence 4, Appl1 |
| 690 | 6 | 2.2 | 436 | 2 | US-09-721-362-112    | Sequence 112, App  | 763 | 6 | 2.2 | 484 | 2 | US-09-949-016-96B8   | Sequence 25, Appl |
| 691 | 6 | 2.2 | 438 | 2 | US-09-583-110-4975   | Sequence 4975, Ap  | 764 | 6 | 2.2 | 484 | 2 | US-08-445-463B-4     | Sequence 4, Appl1 |
| 692 | 6 | 2.2 | 439 | 2 | US-08-985-950-12     | Sequence 12, Appl  | 765 | 6 | 2.2 | 485 | 2 | US-08-445-464C-4     | Sequence 4, Appl1 |
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| 694 | 6 | 2.2 | 439 | 2 | US-08-842-248A-8     | Sequence 8, Appl1  | 767 | 6 | 2.2 | 485 | 2 | PCT-US94-03437-4     | Sequence 4, Appl1 |
| 695 | 6 | 2.2 | 439 | 2 | US-09-546-049-12     | Sequence 12, Appl  | 768 | 6 | 2.2 | 485 | 5 | US-09-949-016-7797   | Sequence 7797, Ap |
| 696 | 6 | 2.2 | 439 | 3 | US-10-143-618-8      | Sequence 8, Appl1  | 769 | 6 | 2.2 | 487 | 2 | US-10-033-301-18     | Sequence 18, Appl |
| 697 | 6 | 2.2 | 441 | 2 | US-09-134-000C-5475  | Sequence 5475, Ap  | 770 | 6 | 2.2 | 487 | 2 | US-10-033-435-18     | Sequence 18, Appl |
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| 699 | 6 | 2.2 | 443 | 2 | US-09-107-433-5150   | Sequence 5150, Ap  | 772 | 6 | 2.2 | 490 | 2 | US-09-907-794A-132   | Sequence 132, App |
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| 706 | 6 | 2.2 | 449 | 2 | US-09-603-208A-284   | Sequence 284, App  | 779 | 6 | 2.2 | 490 | 2 | US-09-904-920A-132   | Sequence 132, App |
| 707 | 6 | 2.2 | 451 | 2 | US-08-996-139-4      | Sequence 4, Appl1  | 780 | 6 | 2.2 | 490 | 2 | US-09-909-064-132    | Sequence 132, App |
| 708 | 6 | 2.2 | 451 | 2 | US-08-995-659-4      | Sequence 4, Appl1  | 781 | 6 | 2.2 | 490 | 2 | US-09-905-381A-132   | Sequence 132, App |
| 709 | 6 | 2.2 | 451 | 2 | US-09-215-649A-4     | Sequence 4, Appl1  | 782 | 6 | 2.2 | 490 | 2 | US-09-906-618-132    | Sequence 132, App |
| 710 | 6 | 2.2 | 451 | 2 | US-09-577-780-4      | Sequence 4, Appl1  | 783 | 6 | 2.2 | 490 | 2 | US-09-906-646-132    | Sequence 132, App |
| 711 | 6 | 2.2 | 451 | 2 | US-09-577-800-4      | Sequence 4, Appl1  | 784 | 6 | 2.2 | 490 | 2 | US-09-904-462-132    | Sequence 132, App |
| 712 | 6 | 2.2 | 451 | 2 | US-09-466-496-4      | Sequence 4, Appl1  | 785 | 6 | 2.2 | 490 | 2 | US-09-902-735A-132   | Sequence 132, App |
| 713 | 6 | 2.2 | 451 | 2 | US-09-871-856-4      | Sequence 4, Appl1  | 786 | 6 | 2.2 | 490 | 2 | US-09-906-722A-132   | Sequence 132, App |
| 714 | 6 | 2.2 | 451 | 2 | US-09-871-291-4      | Sequence 4, Appl1  | 787 | 6 | 2.2 | 490 | 2 | US-09-905-449-132    | Sequence 132, App |
| 715 | 6 | 2.2 | 451 | 2 | US-09-877-650-4      | Sequence 4, Appl1  | 788 | 6 | 2.2 | 490 | 2 | US-09-903-562B-132   | Sequence 132, App |
| 716 | 6 | 2.2 | 451 | 2 | US-09-270-767-59224  | Sequence 59224, A  | 789 | 6 | 2.2 | 490 | 2 | US-09-906-679A-132   | Sequence 132, App |
| 717 | 6 | 2.2 | 451 | 2 | US-09-865-363-4      | Sequence 4, Appl1  | 790 | 6 | 2.2 | 490 | 3 | US-09-907-841-132    | Sequence 132, App |
| 718 | 6 | 2.2 | 451 | 2 | US-09-688-459-4      | Sequence 4, Appl1  | 791 | 6 | 2.2 | 491 | 2 | US-09-543-681A-4195  | Sequence 4195, Ap |
| 719 | 6 | 2.2 | 452 | 2 | US-09-540-236-2370   | Sequence 2370, Ap  | 792 | 6 | 2.2 | 493 | 2 | US-08-996-441B-70    | Sequence 70, Appl |
| 720 | 6 | 2.2 | 459 | 2 | US-09-583-110-5017   | Sequence 5017, Ap  | 793 | 6 | 2.2 | 493 | 2 | US-08-993-722A-70    | Sequence 70, Appl |
| 721 | 6 | 2.2 | 459 | 2 | US-09-769-787-85     | Sequence 85, Appl  | 794 | 6 | 2.2 | 493 | 2 | US-08-993-170A-70    | Sequence 70, Appl |
| 722 | 6 | 2.2 | 461 | 2 | US-09-631-603-10     | Sequence 10, Appl  | 795 | 6 | 2.2 | 493 | 2 | US-08-993-775B-70    | Sequence 70, Appl |
| 723 | 6 | 2.2 | 461 | 2 | US-09-043-944-1      | Sequence 1, Appl1  | 796 | 6 | 2.2 | 493 | 2 | US-09-107-532A-4416  | Sequence 4416, Ap |
| 724 | 6 | 2.2 | 461 | 2 | US-09-043-944-6      | Sequence 6, Appl1  | 797 | 6 | 2.2 | 493 | 2 | US-09-427-770-70     | Sequence 70, Appl |
| 725 | 6 | 2.2 | 461 | 2 | US-10-811-199-1      | Sequence 1, Appl1  | 798 | 6 | 2.2 | 493 | 2 | US-09-427-769-70     | Sequence 70, Appl |
| 726 | 6 | 2.2 | 461 | 2 | US-10-811-199-6      | Sequence 6, Appl1  | 799 | 6 | 2.2 | 494 | 2 | US-09-489-039A-11852 | Sequence 11852, A |
| 727 | 6 | 2.2 | 462 | 2 | US-09-238-796-2      | Sequence 2, Appl1  | 800 | 6 | 2.2 | 495 | 2 | US-09-252-991A-19278 | Sequence 7985, Ap |
| 728 | 6 | 2.2 | 462 | 2 | US-09-328-352-4742   | Sequence 4742, Ap  | 801 | 6 | 2.2 | 498 | 2 | US-09-489-039A-7885  | Sequence 19, Appl |
| 729 | 6 | 2.2 | 467 | 2 | US-09-361-443-2      | Sequence 2, Appl1  | 802 | 6 | 2.2 | 499 | 2 | US-08-426-509A-19    | Sequence 19, Appl |
| 730 | 6 | 2.2 | 467 | 2 | US-09-902-540-15828  | Sequence 15828, A  | 803 | 6 | 2.2 | 499 | 2 | US-08-232-545-19     | Sequence 19, Appl |
| 731 | 6 | 2.2 | 469 | 1 | US-08-313-288B-15    | Sequence 15, Appl  | 804 | 6 | 2.2 | 499 | 5 | US-09-977-261-19     | Sequence 19, Appl |
| 732 | 6 | 2.2 | 469 | 2 | US-09-198-452A-793   | Sequence 793, App  | 805 | 6 | 2.2 | 499 | 5 | PCT-US95-0500-19     | Sequence 31865, A |
| 733 | 6 | 2.2 | 469 | 2 | US-09-438-185A-745   | Sequence 745, App  | 806 | 6 | 2.2 | 501 | 2 | US-09-252-991A-31885 | Sequence 7, Appl1 |
| 734 | 6 | 2.2 | 470 | 2 | US-09-107-433-4341   | Sequence 4341, App | 807 | 6 | 2.2 | 502 | 2 | US-09-499-302A-7     | Sequence 18, Appl |
| 735 | 6 | 2.2 | 470 | 2 | US-10-104-047-3177   | Sequence 3177, Ap  | 808 | 6 | 2.2 | 503 | 2 | US-08-740-223A-18    | Sequence 4, Appl1 |
| 736 | 6 | 2.2 | 471 | 2 | US-09-126-420A-20    | Sequence 20, Appl  | 809 | 6 | 2.2 | 503 | 2 | US-09-202-491-4      | Sequence 4, Appl1 |
| 737 | 6 | 2.2 | 471 | 2 | US-09-949-016-7743   | Sequence 7743, Ap  | 810 | 6 | 2.2 | 503 | 2 | US-09-202-491-10     | Sequence 10, Appl |
| 738 | 6 | 2.2 | 471 | 2 | US-09-893-737-186    | Sequence 186, App  | 811 | 6 | 2.2 | 503 | 2 | US-09-709-188-18     | Sequence 18, Appl |
| 739 | 6 | 2.2 | 472 | 2 | US-09-328-352-6296   | Sequence 6296, Ap  | 812 | 6 | 2.2 | 503 | 2 | US-10-225-060-18     | Sequence 18, Appl |
| 740 | 6 | 2.2 | 472 | 5 | PCT-US94-09235-2     | Sequence 2, Appl1  | 813 | 6 | 2.2 | 503 | 2 | US-10-215-224-4      | Sequence 4, Appl1 |
| 741 | 6 | 2.2 | 473 | 1 | US-09-902-540-16631  | Sequence 16631, A  | 814 | 6 | 2.2 | 503 | 2 | US-10-215-224-10     | Sequence 10, Appl |
| 742 | 6 | 2.2 | 474 | 1 | US-08-453-742-2      | Sequence 2, Appl1  | 815 | 6 | 2.2 | 503 | 2 | US-10-214-812-4      | Sequence 4, Appl1 |
| 743 | 6 | 2.2 | 474 | 1 | US-08-454-464-2      | Sequence 2, Appl1  | 816 | 6 | 2.2 | 503 | 2 | US-10-214-812-10     | Sequence 10, Appl |
| 744 | 6 | 2.2 | 474 | 1 | US-08-453-222-2      | Sequence 2, Appl1  | 817 | 6 | 2.2 | 504 | 1 | US-08-457-274A-25    | Sequence 25, Appl |
| 745 | 6 | 2.2 | 474 | 1 | US-08-452-802-2      | Sequence 2, Appl1  | 818 | 6 | 2.2 | 504 | 2 | US-10-018-386-6      | Sequence 6, Appl1 |
| 746 | 6 | 2.2 | 474 | 2 | US-09-949-001-19     | Sequence 19, Appl  | 819 | 6 | 2.2 | 504 | 5 | PCT-US95-05758-25    | Sequence 25, Appl |
| 747 | 6 | 2.2 | 476 | 1 | US-09-902-540-10728  | Sequence 10728, A  | 820 | 6 | 2.2 | 506 | 2 | US-09-270-767-44797  | Sequence 44797, A |
| 748 | 6 | 2.2 | 477 | 1 | US-08-453-742-27     | Sequence 27, Appl  | 821 | 6 | 2.2 | 508 | 2 | US-09-019-095A-8     | Sequence 8, Appl1 |
| 749 | 6 | 2.2 | 477 | 1 | US-08-454-464-27     | Sequence 27, Appl  | 822 | 6 | 2.2 | 508 | 2 | US-09-984-880-4      | Sequence 8, Appl1 |
| 750 | 6 | 2.2 | 477 | 1 | US-08-453-222-27     | Sequence 27, Appl  | 823 | 6 | 2.2 | 508 | 2 | US-10-277-032-4      | Sequence 4, Appl1 |
| 751 | 6 | 2.2 | 477 | 1 | US-08-452-802-27     | Sequence 27, Appl  | 824 | 6 | 2.2 | 508 | 2 | US-10-681-223-4      | Sequence 4, Appl1 |
| 752 | 6 | 2.2 | 479 | 2 | US-09-723-368-2      | Sequence 2, Appl1  | 825 | 6 | 2.2 | 510 | 2 | US-09-270-767-42036  | Sequence 42036, A |
| 753 | 6 | 2.2 | 479 | 2 | US-09-949-016-6278   | Sequence 6278, Ap  | 826 | 6 | 2.2 | 510 | 2 | US-09-949-016-9862   | Sequence 9862, Ap |
| 754 | 6 | 2.2 | 479 | 2 | US-09-902-540-16455  | Sequence 16455, A  | 827 | 6 | 2.2 | 511 | 2 | US-09-302-540-16498  | Sequence 16498, A |
| 755 | 6 | 2.2 | 480 | 2 | US-09-252-991A-19202 | Sequence 19202, A  | 828 | 6 | 2.2 | 513 | 2 | US-09-041-886-28     | Sequence 28, Appl |
| 756 | 6 | 2.2 | 481 | 2 | US-09-902-540-13111  | Sequence 13111, A  | 829 | 6 | 2.2 | 518 | 2 | US-09-206-551-45     | Sequence 45, Appl |

|     |   |     |     |   |                       |                    |     |   |     |     |   |                      |                   |
|-----|---|-----|-----|---|-----------------------|--------------------|-----|---|-----|-----|---|----------------------|-------------------|
| 830 | 6 | 2.2 | 521 | 2 | US-09-019-095A-22     | Sequence 22, Appl1 | 903 | 6 | 2.2 | 566 | 1 | US-08-415-823-4      | Sequence 4, Appl1 |
| 831 | 6 | 2.2 | 521 | 2 | US-09-252-991A-227868 | Sequence 27868, A  | 904 | 6 | 2.2 | 566 | 1 | US-09-086-662-4      | Sequence 4, Appl1 |
| 832 | 6 | 2.2 | 522 | 2 | US-09-461-325-220     | Sequence 220, App  | 905 | 6 | 2.2 | 567 | 2 | US-09-198-452A-994   | Sequence 994, App |
| 833 | 6 | 2.2 | 522 | 2 | US-10-012-542-220     | Sequence 220, App  | 906 | 6 | 2.2 | 568 | 1 | US-08-460-934-6      | Sequence 6, Appl1 |
| 834 | 6 | 2.2 | 522 | 2 | US-10-115-123-220     | Sequence 220, App  | 907 | 6 | 2.2 | 568 | 1 | US-08-182-118-6      | Sequence 6, Appl1 |
| 835 | 6 | 2.2 | 522 | 2 | US-09-949-016-7563    | Sequence 7563, Ap  | 908 | 6 | 2.2 | 572 | 2 | US-10-094-749-3      | Sequence 3157, Ap |
| 836 | 6 | 2.2 | 523 | 2 | US-09-910-174B-11     | Sequence 11, Appl  | 909 | 6 | 2.2 | 573 | 2 | US-09-252-991A-31661 | Sequence 31661, A |
| 837 | 6 | 2.2 | 523 | 2 | US-09-620-461-11      | Sequence 11, Appl  | 910 | 6 | 2.2 | 574 | 2 | US-09-991-181-340    | Sequence 340, App |
| 838 | 6 | 2.2 | 523 | 2 | US-09-930-218-4       | Sequence 4, Appl1  | 911 | 6 | 2.2 | 574 | 2 | US-09-990-444-340    | Sequence 340, App |
| 839 | 6 | 2.2 | 524 | 2 | US-09-134-001C-4315   | Sequence 4315, Ap  | 912 | 6 | 2.2 | 574 | 2 | US-09-997-333-340    | Sequence 340, App |
| 840 | 6 | 2.2 | 525 | 2 | US-09-252-991A-29635  | Sequence 29635, A  | 913 | 6 | 2.2 | 574 | 2 | US-09-992-598-340    | Sequence 340, App |
| 841 | 6 | 2.2 | 525 | 3 | US-10-021-425-34      | Sequence 34, Appl  | 914 | 6 | 2.2 | 574 | 3 | US-09-989-735-340    | Sequence 340, App |
| 842 | 6 | 2.2 | 526 | 2 | US-09-019-095A-2      | Sequence 2, Appl1  | 915 | 6 | 2.2 | 574 | 3 | US-09-989-726-340    | Sequence 340, App |
| 843 | 6 | 2.2 | 526 | 2 | US-09-538-092-408     | Sequence 408, App  | 916 | 6 | 2.2 | 574 | 3 | US-09-997-514-340    | Sequence 340, App |
| 844 | 6 | 2.2 | 527 | 2 | US-09-930-218-16      | Sequence 16, Appl  | 917 | 6 | 2.2 | 574 | 3 | US-09-989-728-340    | Sequence 340, App |
| 845 | 6 | 2.2 | 528 | 1 | US-08-363-255-14      | Sequence 14, Appl  | 918 | 6 | 2.2 | 574 | 3 | US-09-997-349-340    | Sequence 340, App |
| 846 | 6 | 2.2 | 528 | 2 | US-09-489-039A-12242  | Sequence 12242, A  | 919 | 6 | 2.2 | 574 | 3 | US-09-997-653-340    | Sequence 340, App |
| 847 | 6 | 2.2 | 529 | 2 | US-08-624-396B-2      | Sequence 2, Appl1  | 920 | 6 | 2.2 | 577 | 2 | US-09-989-293A-340   | Sequence 340, App |
| 848 | 6 | 2.2 | 529 | 2 | US-09-270-767-43463   | Sequence 43463, A  | 921 | 6 | 2.2 | 577 | 2 | US-09-252-991A-33531 | Sequence 33531, A |
| 849 | 6 | 2.2 | 530 | 2 | US-08-363-255-2       | Sequence 2, Appl1  | 922 | 6 | 2.2 | 578 | 2 | US-09-252-991A-16850 | Sequence 16850, A |
| 850 | 6 | 2.2 | 530 | 1 | US-08-363-255-3       | Sequence 3, Appl1  | 923 | 6 | 2.2 | 579 | 2 | US-08-743-168B-36    | Sequence 36, Appl |
| 851 | 6 | 2.2 | 530 | 1 | US-08-363-255-8       | Sequence 8, Appl1  | 924 | 6 | 2.2 | 579 | 2 | US-09-369-247-61     | Sequence 61, Appl |
| 852 | 6 | 2.2 | 530 | 1 | US-08-363-255-9       | Sequence 9, Appl1  | 925 | 6 | 2.2 | 579 | 2 | US-10-062-548-61     | Sequence 61, Appl |
| 853 | 6 | 2.2 | 530 | 1 | US-08-363-255-10      | Sequence 10, Appl  | 926 | 6 | 2.2 | 580 | 2 | US-08-311-731A-289   | Sequence 289, App |
| 854 | 6 | 2.2 | 530 | 1 | US-09-041-886-29      | Sequence 29, Appl  | 927 | 6 | 2.2 | 581 | 1 | US-08-724-394A-3     | Sequence 3, Appl1 |
| 855 | 6 | 2.2 | 531 | 2 | US-09-949-016-7044    | Sequence 7044, Ap  | 928 | 6 | 2.2 | 581 | 2 | US-08-961-083-132    | Sequence 132, App |
| 856 | 6 | 2.2 | 540 | 2 | US-09-621-451-2       | Sequence 2, Appl1  | 929 | 6 | 2.2 | 581 | 2 | US-09-536-784-132    | Sequence 132, App |
| 857 | 6 | 2.2 | 540 | 2 | US-10-223-355-2       | Sequence 2, Appl1  | 930 | 6 | 2.2 | 581 | 2 | US-09-765-271-132    | Sequence 132, App |
| 858 | 6 | 2.2 | 540 | 2 | US-09-621-448-2       | Sequence 2, Appl1  | 931 | 6 | 2.2 | 581 | 2 | US-09-765-272A-132   | Sequence 132, App |
| 859 | 6 | 2.2 | 543 | 2 | US-09-902-540-16769   | Sequence 16769, A  | 932 | 6 | 2.2 | 582 | 1 | US-08-989-386-1      | Sequence 1, Appl1 |
| 860 | 6 | 2.2 | 544 | 2 | US-09-902-540-13743   | Sequence 13743, A  | 933 | 6 | 2.2 | 588 | 2 | US-09-949-016-8742   | Sequence 8742, Ap |
| 861 | 6 | 2.2 | 545 | 2 | US-09-902-540-13532   | Sequence 13532, A  | 934 | 6 | 2.2 | 589 | 2 | US-09-041-886-31     | Sequence 31, Appl |
| 862 | 6 | 2.2 | 546 | 2 | US-09-252-991A-23291  | Sequence 23291, A  | 935 | 6 | 2.2 | 589 | 2 | US-09-248-796B-13246 | Sequence 19246, A |
| 863 | 6 | 2.2 | 547 | 2 | US-10-140-372-10      | Sequence 10, Appl  | 936 | 6 | 2.2 | 591 | 2 | US-08-996-139-2      | Sequence 2, Appl1 |
| 864 | 6 | 2.2 | 548 | 1 | US-07-675-211-2       | Sequence 2, Appl1  | 937 | 6 | 2.2 | 591 | 2 | US-08-995-659-2      | Sequence 2, Appl1 |
| 865 | 6 | 2.2 | 548 | 1 | US-07-903-047-8       | Sequence 8, Appl1  | 938 | 6 | 2.2 | 591 | 2 | US-09-215-649A-2     | Sequence 2, Appl1 |
| 866 | 6 | 2.2 | 548 | 1 | US-07-903-047-8       | Sequence 8, Appl1  | 939 | 6 | 2.2 | 591 | 2 | US-09-577-780-2      | Sequence 2, Appl1 |
| 867 | 6 | 2.2 | 548 | 1 | US-08-076-042-2       | Sequence 2, Appl1  | 940 | 6 | 2.2 | 591 | 2 | US-09-577-800-2      | Sequence 2, Appl1 |
| 868 | 6 | 2.2 | 548 | 1 | US-08-460-934-2       | Sequence 2, Appl1  | 941 | 6 | 2.2 | 591 | 2 | US-09-466-496-2      | Sequence 2, Appl1 |
| 869 | 6 | 2.2 | 548 | 1 | US-08-782-118-2       | Sequence 2, Appl1  | 942 | 6 | 2.2 | 591 | 2 | US-09-871-856-2      | Sequence 2, Appl1 |
| 870 | 6 | 2.2 | 548 | 2 | US-09-111-752-14      | Sequence 14, Appl  | 943 | 6 | 2.2 | 591 | 2 | US-09-871-291-2      | Sequence 2, Appl1 |
| 871 | 6 | 2.2 | 548 | 2 | US-09-380-061B-14     | Sequence 14, Appl  | 944 | 6 | 2.2 | 591 | 2 | US-09-877-650-2      | Sequence 2, Appl1 |
| 872 | 6 | 2.2 | 548 | 2 | US-09-380-061B-16     | Sequence 16, Appl  | 945 | 6 | 2.2 | 591 | 2 | US-09-885-363-2      | Sequence 2, Appl1 |
| 873 | 6 | 2.2 | 548 | 2 | US-09-380-061B-18     | Sequence 18, Appl  | 946 | 6 | 2.2 | 591 | 2 | US-09-688-459-2      | Sequence 2, Appl1 |
| 874 | 6 | 2.2 | 548 | 2 | US-08-487-183A-12     | Sequence 12, Appl  | 947 | 6 | 2.2 | 592 | 2 | US-09-252-991A-18472 | Sequence 18472, A |
| 875 | 6 | 2.2 | 548 | 2 | US-08-487-183A-14     | Sequence 14, Appl  | 948 | 6 | 2.2 | 592 | 2 | US-09-252-991A-28435 | Sequence 20435, A |
| 876 | 6 | 2.2 | 548 | 2 | US-08-487-183A-16     | Sequence 16, Appl  | 949 | 6 | 2.2 | 595 | 2 | US-09-252-991A-18995 | Sequence 18995, A |
| 877 | 6 | 2.2 | 548 | 2 | US-09-602-628-10      | Sequence 10, Appl  | 950 | 6 | 2.2 | 596 | 3 | US-10-229-346-7      | Sequence 7, Appl1 |
| 878 | 6 | 2.2 | 548 | 2 | US-09-396-154-27      | Sequence 27, Appl  | 951 | 6 | 2.2 | 597 | 2 | US-08-704-966-2      | Sequence 2, Appl1 |
| 879 | 6 | 2.2 | 548 | 2 | US-09-396-154-28      | Sequence 28, Appl  | 952 | 6 | 2.2 | 597 | 2 | US-08-705-438-2      | Sequence 2, Appl1 |
| 880 | 6 | 2.2 | 548 | 2 | US-09-396-154-29      | Sequence 29, Appl  | 953 | 6 | 2.2 | 597 | 2 | US-09-489-039A-11112 | Sequence 14112, A |
| 881 | 6 | 2.2 | 548 | 2 | US-09-581-241A-4      | Sequence 4, Appl1  | 954 | 6 | 2.2 | 597 | 3 | US-10-229-346-4      | Sequence 4, Appl1 |
| 882 | 6 | 2.2 | 548 | 2 | US-09-581-241A-6      | Sequence 6, Appl1  | 955 | 6 | 2.2 | 597 | 3 | US-10-229-346-13     | Sequence 13, Appl |
| 883 | 6 | 2.2 | 548 | 2 | US-09-581-241A-8      | Sequence 8, Appl1  | 956 | 6 | 2.2 | 597 | 3 | US-10-229-346-21     | Sequence 21, Appl |
| 884 | 6 | 2.2 | 550 | 2 | US-09-039-859-9       | Sequence 9, Appl1  | 957 | 6 | 2.2 | 598 | 2 | US-09-310-463-10     | Sequence 10, Appl |
| 885 | 6 | 2.2 | 550 | 2 | US-09-199-637A-202    | Sequence 202, App  | 958 | 6 | 2.2 | 598 | 2 | US-08-842-248A-10    | Sequence 10, Appl |
| 886 | 6 | 2.2 | 550 | 2 | US-09-396-478A-2      | Sequence 2, Appl1  | 959 | 6 | 2.2 | 598 | 3 | US-10-143-618-10     | Sequence 10, Appl |
| 887 | 6 | 2.2 | 551 | 2 | US-09-252-991A-23694  | Sequence 23694, A  | 960 | 6 | 2.2 | 598 | 3 | US-10-229-346-9      | Sequence 9, Appl  |
| 888 | 6 | 2.2 | 552 | 2 | US-09-111-752-7       | Sequence 7, Appl1  | 961 | 6 | 2.2 | 599 | 3 | US-09-328-352-7756   | Sequence 7756, Ap |
| 889 | 6 | 2.2 | 552 | 2 | US-09-111-752-10      | Sequence 10, Appl  | 962 | 6 | 2.2 | 600 | 3 | US-10-229-346-15     | Sequence 15, Appl |
| 890 | 6 | 2.2 | 552 | 2 | US-09-041-886-30      | Sequence 30, Appl  | 963 | 6 | 2.2 | 601 | 3 | US-10-229-346-15     | Sequence 15, Appl |
| 891 | 6 | 2.2 | 554 | 2 | US-09-248-796A-14678  | Sequence 14678, A  | 964 | 6 | 2.2 | 602 | 3 | US-10-229-346-19     | Sequence 19, Appl |
| 892 | 6 | 2.2 | 554 | 2 | US-09-438-185A-924    | Sequence 924, App  | 965 | 6 | 2.2 | 605 | 2 | US-09-352-991A-25512 | Sequence 25512, A |
| 893 | 6 | 2.2 | 554 | 2 | US-10-094-749-2500    | Sequence 2500, Ap  | 966 | 6 | 2.2 | 606 | 2 | US-09-489-039A-14275 | Sequence 14275, A |
| 894 | 6 | 2.2 | 555 | 2 | US-09-461-325-251     | Sequence 251, App  | 967 | 6 | 2.2 | 606 | 3 | US-09-248-796A-14276 | Sequence 14276, A |
| 895 | 6 | 2.2 | 555 | 2 | US-10-012-542-251     | Sequence 251, App  | 968 | 6 | 2.2 | 606 | 3 | US-10-229-346-11     | Sequence 11, App  |
| 896 | 6 | 2.2 | 555 | 2 | US-09-535-315-24      | Sequence 251, Appl | 969 | 6 | 2.2 | 608 | 2 | US-09-199-637A-201   | Sequence 201, App |
| 897 | 6 | 2.2 | 555 | 2 | US-10-115-123-251     | Sequence 251, Appl | 970 | 6 | 2.2 | 608 | 2 | US-09-252-991A-17946 | Sequence 17946, A |
| 898 | 6 | 2.2 | 556 | 2 | US-08-462-467B-26     | Sequence 26, Appl  | 971 | 6 | 2.2 | 609 | 2 | US-09-447-497-12     | Sequence 12, Appl |
| 899 | 6 | 2.2 | 564 | 2 | US-09-949-016-6898    | Sequence 6898, Ap  | 972 | 6 | 2.2 | 610 | 2 | US-08-704-966-4      | Sequence 4, Appl1 |
| 900 | 6 | 2.2 | 564 | 2 | US-10-069-540A-2      | Sequence 2, Appl1  | 973 | 6 | 2.2 | 610 | 2 | US-08-705-438-4      | Sequence 4, Appl1 |
| 901 | 6 | 2.2 | 565 | 2 | US-09-328-352-4920    | Sequence 4920, Ap  | 974 | 6 | 2.2 | 613 | 2 | US-09-107-532A-6935  | Sequence 6935, Ap |
| 902 | 6 | 2.2 | 565 | 2 | US-09-949-016-6902    | Sequence 6902, Ap  | 975 | 6 | 2.2 | 615 | 2 | US-08-985-950-16     | Sequence 16, Appl |

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|------|---|-----|-----|---|----------------------|-------------------|------|---|-----|-----|---|----------------------|--------------------|
| 976  | 6 | 2.2 | 615 | 2 | US-08-985-950-18     | Sequence 18, Appl | 1049 | 6 | 2.2 | 651 | 2 | US-08-993-775B-52    | Sequence 52, Appl  |
| 977  | 6 | 2.2 | 615 | 2 | US-09-546-049-16     | Sequence 16, Appl | 1050 | 6 | 2.2 | 651 | 2 | US-08-993-775B-58    | Sequence 56, Appl  |
| 978  | 6 | 2.2 | 615 | 2 | US-09-546-049-18     | Sequence 18, Appl | 1051 | 6 | 2.2 | 651 | 2 | US-08-993-775B-56    | Sequence 58, Appl  |
| 979  | 6 | 2.2 | 616 | 2 | US-08-996-139-6      | Sequence 6, Appl  | 1052 | 6 | 2.2 | 651 | 2 | US-07-941-650A-4     | Sequence 4, Appl   |
| 980  | 6 | 2.2 | 616 | 2 | US-08-995-659-6      | Sequence 6, Appl  | 1053 | 6 | 2.2 | 651 | 2 | US-09-252-991A-18065 | Sequence 18065, A  |
| 981  | 6 | 2.2 | 616 | 2 | US-09-215-649A-6     | Sequence 6, Appl  | 1054 | 6 | 2.2 | 651 | 2 | US-09-427-770-52     | Sequence 52, Appl  |
| 982  | 6 | 2.2 | 616 | 2 | US-09-577-780-6      | Sequence 6, Appl  | 1055 | 6 | 2.2 | 651 | 2 | US-09-427-770-56     | Sequence 56, Appl  |
| 983  | 6 | 2.2 | 616 | 2 | US-09-577-800-6      | Sequence 6, Appl  | 1056 | 6 | 2.2 | 651 | 2 | US-09-427-769-52     | Sequence 52, Appl  |
| 984  | 6 | 2.2 | 616 | 2 | US-09-466-496-6      | Sequence 6, Appl  | 1057 | 6 | 2.2 | 651 | 2 | US-09-427-769-56     | Sequence 56, Appl  |
| 985  | 6 | 2.2 | 616 | 2 | US-09-871-856-6      | Sequence 6, Appl  | 1058 | 6 | 2.2 | 651 | 2 | US-09-427-766-58     | Sequence 58, Appl  |
| 986  | 6 | 2.2 | 616 | 2 | US-09-871-291-6      | Sequence 6, Appl  | 1059 | 6 | 2.2 | 652 | 2 | US-08-996-441B-2     | Sequence 2, Appl   |
| 987  | 6 | 2.2 | 616 | 2 | US-09-877-650-6      | Sequence 6, Appl  | 1060 | 6 | 2.2 | 652 | 2 | US-08-996-441B-4     | Sequence 4, Appl   |
| 988  | 6 | 2.2 | 616 | 2 | US-09-865-363-6      | Sequence 6, Appl  | 1061 | 6 | 2.2 | 652 | 2 | US-08-996-441B-6     | Sequence 6, Appl   |
| 989  | 6 | 2.2 | 616 | 2 | US-09-949-016-6421   | Sequence 6421, Ap | 1062 | 6 | 2.2 | 652 | 2 | US-08-996-441B-8     | Sequence 8, Appl   |
| 990  | 6 | 2.2 | 616 | 2 | US-09-668-459-6      | Sequence 6, Appl  | 1063 | 6 | 2.2 | 652 | 2 | US-08-996-441B-10    | Sequence 10, Appl  |
| 991  | 6 | 2.2 | 616 | 2 | US-09-957-944-2      | Sequence 2, Appl  | 1064 | 6 | 2.2 | 652 | 2 | US-08-996-441B-12    | Sequence 12, Appl  |
| 992  | 6 | 2.2 | 618 | 2 | US-09-934-901-18     | Sequence 18, Appl | 1065 | 6 | 2.2 | 652 | 2 | US-08-996-441B-14    | Sequence 14, Appl  |
| 993  | 6 | 2.2 | 618 | 2 | US-09-934-868-8      | Sequence 8, Appl  | 1066 | 6 | 2.2 | 652 | 2 | US-08-996-441B-16    | Sequence 16, Appl  |
| 994  | 6 | 2.2 | 618 | 2 | US-10-321-210-18     | Sequence 18, Appl | 1067 | 6 | 2.2 | 652 | 2 | US-08-996-441B-18    | Sequence 18, Appl  |
| 995  | 6 | 2.2 | 618 | 2 | US-10-320-874-18     | Sequence 18, Appl | 1068 | 6 | 2.2 | 652 | 2 | US-08-996-441B-20    | Sequence 20, Appl  |
| 996  | 6 | 2.2 | 618 | 2 | US-10-320-924-18     | Sequence 18, Appl | 1069 | 6 | 2.2 | 652 | 2 | US-08-996-441B-22    | Sequence 22, Appl  |
| 997  | 6 | 2.2 | 618 | 2 | US-10-701-200-8      | Sequence 8, Appl  | 1070 | 6 | 2.2 | 652 | 2 | US-08-996-441B-24    | Sequence 24, Appl  |
| 998  | 6 | 2.2 | 622 | 2 | US-09-957-944-10     | Sequence 10, Appl | 1071 | 6 | 2.2 | 652 | 2 | US-08-996-441B-26    | Sequence 26, Appl  |
| 999  | 6 | 2.2 | 623 | 2 | US-09-447-497-11     | Sequence 11, Appl | 1072 | 6 | 2.2 | 652 | 2 | US-08-996-441B-28    | Sequence 28, Appl  |
| 1000 | 6 | 2.2 | 631 | 2 | US-09-543-681A-7242  | Sequence 7242, Ap | 1073 | 6 | 2.2 | 652 | 2 | US-08-996-441B-30    | Sequence 30, Appl  |
| 1001 | 6 | 2.2 | 632 | 2 | US-09-949-016-6976   | Sequence 6976, Ap | 1074 | 6 | 2.2 | 652 | 2 | US-08-996-441B-32    | Sequence 32, Appl  |
| 1002 | 6 | 2.2 | 636 | 1 | US-08-460-934-9      | Sequence 9, Appl  | 1075 | 6 | 2.2 | 652 | 2 | US-08-996-441B-34    | Sequence 34, Appl  |
| 1003 | 6 | 2.2 | 636 | 1 | US-08-782-118-9      | Sequence 9, Appl  | 1076 | 6 | 2.2 | 652 | 2 | US-08-996-441B-36    | Sequence 36, Appl  |
| 1004 | 6 | 2.2 | 636 | 1 | US-08-252-991A-23287 | Sequence 23287, A | 1077 | 6 | 2.2 | 652 | 2 | US-08-996-441B-38    | Sequence 38, Appl  |
| 1005 | 6 | 2.2 | 636 | 2 | US-09-270-767-45245  | Sequence 45245, A | 1078 | 6 | 2.2 | 652 | 2 | US-08-996-441B-40    | Sequence 40, Appl  |
| 1006 | 6 | 2.2 | 637 | 2 | US-09-328-352-8244   | Sequence 8244, Ap | 1079 | 6 | 2.2 | 652 | 2 | US-08-996-441B-42    | Sequence 42, Appl  |
| 1007 | 6 | 2.2 | 638 | 1 | US-08-557-122A-38    | Sequence 38, Appl | 1080 | 6 | 2.2 | 652 | 2 | US-08-996-441B-44    | Sequence 44, Appl  |
| 1008 | 6 | 2.2 | 638 | 2 | US-09-262-666-58     | Sequence 38, Appl | 1081 | 6 | 2.2 | 652 | 2 | US-08-996-441B-46    | Sequence 46, Appl  |
| 1009 | 6 | 2.2 | 638 | 2 | US-09-252-991A-27068 | Sequence 27068, A | 1082 | 6 | 2.2 | 652 | 2 | US-08-996-441B-48    | Sequence 48, Appl  |
| 1010 | 6 | 2.2 | 639 | 2 | US-09-199-637A-200   | Sequence 200, App | 1083 | 6 | 2.2 | 652 | 2 | US-08-996-441B-50    | Sequence 50, Appl  |
| 1011 | 6 | 2.2 | 639 | 2 | US-09-252-991A-26388 | Sequence 26388, A | 1084 | 6 | 2.2 | 652 | 2 | US-08-996-441B-54    | Sequence 54, Appl  |
| 1012 | 6 | 2.2 | 641 | 2 | US-09-199-637A-103   | Sequence 103, App | 1085 | 6 | 2.2 | 652 | 2 | US-08-996-441B-60    | Sequence 60, Appl  |
| 1013 | 6 | 2.2 | 643 | 2 | US-09-199-637A-199   | Sequence 199, App | 1086 | 6 | 2.2 | 652 | 2 | US-08-996-441B-62    | Sequence 62, Appl  |
| 1014 | 6 | 2.2 | 644 | 1 | US-07-828-788A-4     | Sequence 4, Appl  | 1087 | 6 | 2.2 | 652 | 2 | US-08-996-441B-64    | Sequence 64, Appl  |
| 1015 | 6 | 2.2 | 644 | 1 | US-08-072-281-2      | Sequence 2, Appl  | 1088 | 6 | 2.2 | 652 | 2 | US-08-996-441B-66    | Sequence 66, Appl  |
| 1016 | 6 | 2.2 | 644 | 1 | US-08-295-060-2      | Sequence 2, Appl  | 1089 | 6 | 2.2 | 652 | 2 | US-08-996-441B-68    | Sequence 68, Appl  |
| 1017 | 6 | 2.2 | 644 | 1 | US-08-759-446-2      | Sequence 2, Appl  | 1090 | 6 | 2.2 | 652 | 2 | US-08-996-441B-98    | Sequence 98, Appl  |
| 1018 | 6 | 2.2 | 644 | 2 | US-09-027-998A-2     | Sequence 2, Appl  | 1091 | 6 | 2.2 | 652 | 2 | US-08-996-441B-108   | Sequence 108, Appl |
| 1019 | 6 | 2.2 | 644 | 2 | US-09-696-348-2      | Sequence 2, Appl  | 1092 | 6 | 2.2 | 652 | 2 | US-08-996-441B-110   | Sequence 110, App  |
| 1020 | 6 | 2.2 | 644 | 2 | US-10-232-441-2      | Sequence 2, Appl  | 1093 | 6 | 2.2 | 652 | 2 | US-08-996-441B-111   | Sequence 111, App  |
| 1021 | 6 | 2.2 | 644 | 2 | US-09-943-692-2      | Sequence 2, Appl  | 1094 | 6 | 2.2 | 652 | 2 | US-08-993-722A-113   | Sequence 113, App  |
| 1022 | 6 | 2.2 | 644 | 3 | US-10-229-346-2      | Sequence 2, Appl  | 1095 | 6 | 2.2 | 652 | 2 | US-08-993-722A-2     | Sequence 2, Appl   |
| 1023 | 6 | 2.2 | 644 | 5 | PCT-US92-11337-4     | Sequence 4, Appl  | 1096 | 6 | 2.2 | 652 | 2 | US-08-993-722A-4     | Sequence 4, Appl   |
| 1024 | 6 | 2.2 | 645 | 1 | US-08-295-060-4      | Sequence 4, Appl  | 1097 | 6 | 2.2 | 652 | 2 | US-08-993-722A-6     | Sequence 6, Appl   |
| 1025 | 6 | 2.2 | 645 | 2 | US-09-199-637A-253   | Sequence 253, App | 1098 | 6 | 2.2 | 652 | 2 | US-08-993-722A-8     | Sequence 8, Appl   |
| 1026 | 6 | 2.2 | 645 | 2 | US-09-252-991A-26479 | Sequence 26479, A | 1099 | 6 | 2.2 | 652 | 2 | US-08-993-722A-10    | Sequence 10, Appl  |
| 1027 | 6 | 2.2 | 647 | 1 | US-10-094-749-2449   | Sequence 2449, Ap | 1100 | 6 | 2.2 | 652 | 2 | US-08-993-722A-12    | Sequence 12, Appl  |
| 1028 | 6 | 2.2 | 649 | 1 | US-08-871-266B-16    | Sequence 16, Appl | 1101 | 6 | 2.2 | 652 | 2 | US-08-993-722A-14    | Sequence 14, Appl  |
| 1029 | 6 | 2.2 | 649 | 1 | US-09-018-864A-16    | Sequence 16, Appl | 1102 | 6 | 2.2 | 652 | 2 | US-08-993-722A-16    | Sequence 16, Appl  |
| 1030 | 6 | 2.2 | 649 | 2 | US-08-996-441B-109   | Sequence 109, App | 1103 | 6 | 2.2 | 652 | 2 | US-08-993-722A-18    | Sequence 18, Appl  |
| 1031 | 6 | 2.2 | 649 | 2 | US-08-993-722A-109   | Sequence 109, App | 1104 | 6 | 2.2 | 652 | 2 | US-08-993-722A-20    | Sequence 20, Appl  |
| 1032 | 6 | 2.2 | 649 | 2 | US-08-993-170A-109   | Sequence 109, App | 1105 | 6 | 2.2 | 652 | 2 | US-08-993-722A-22    | Sequence 22, Appl  |
| 1033 | 6 | 2.2 | 649 | 2 | US-08-993-775B-109   | Sequence 109, App | 1106 | 6 | 2.2 | 652 | 2 | US-08-993-722A-24    | Sequence 24, Appl  |
| 1034 | 6 | 2.2 | 649 | 2 | US-08-871-267B-22    | Sequence 22, Appl | 1107 | 6 | 2.2 | 652 | 2 | US-08-993-722A-26    | Sequence 26, Appl  |
| 1035 | 6 | 2.2 | 649 | 2 | US-09-618-419-52     | Sequence 22, Appl | 1108 | 6 | 2.2 | 652 | 2 | US-08-993-722A-28    | Sequence 28, Appl  |
| 1036 | 6 | 2.2 | 649 | 2 | US-09-427-770-109    | Sequence 109, App | 1109 | 6 | 2.2 | 652 | 2 | US-08-993-722A-30    | Sequence 30, Appl  |
| 1037 | 6 | 2.2 | 649 | 2 | US-09-427-769-109    | Sequence 109, App | 1110 | 6 | 2.2 | 652 | 2 | US-08-993-722A-32    | Sequence 32, Appl  |
| 1038 | 6 | 2.2 | 650 | 2 | US-09-252-991A-21687 | Sequence 21687, A | 1111 | 6 | 2.2 | 652 | 2 | US-08-993-722A-34    | Sequence 34, Appl  |
| 1039 | 6 | 2.2 | 651 | 1 | US-08-315-468-6      | Sequence 6, Appl  | 1112 | 6 | 2.2 | 652 | 2 | US-08-993-722A-36    | Sequence 36, Appl  |
| 1040 | 6 | 2.2 | 651 | 2 | US-08-996-441B-52    | Sequence 52, Appl | 1113 | 6 | 2.2 | 652 | 2 | US-08-993-722A-38    | Sequence 38, Appl  |
| 1041 | 6 | 2.2 | 651 | 2 | US-08-996-441B-56    | Sequence 56, Appl | 1114 | 6 | 2.2 | 652 | 2 | US-08-993-722A-40    | Sequence 40, Appl  |
| 1042 | 6 | 2.2 | 651 | 2 | US-08-996-441B-58    | Sequence 58, Appl | 1115 | 6 | 2.2 | 652 | 2 | US-08-993-722A-42    | Sequence 42, Appl  |
| 1043 | 6 | 2.2 | 651 | 2 | US-08-993-722A-52    | Sequence 52, Appl | 1116 | 6 | 2.2 | 652 | 2 | US-08-993-722A-44    | Sequence 44, Appl  |
| 1044 | 6 | 2.2 | 651 | 2 | US-08-993-722A-56    | Sequence 56, Appl | 1117 | 6 | 2.2 | 652 | 2 | US-08-993-722A-46    | Sequence 46, Appl  |
| 1045 | 6 | 2.2 | 651 | 2 | US-08-993-722A-58    | Sequence 58, Appl | 1118 | 6 | 2.2 | 652 | 2 | US-08-993-722A-48    | Sequence 48, Appl  |
| 1046 | 6 | 2.2 | 651 | 2 | US-08-993-170A-52    | Sequence 52, Appl | 1119 | 6 | 2.2 | 652 | 2 | US-08-993-722A-50    | Sequence 50, Appl  |
| 1047 | 6 | 2.2 | 651 | 2 | US-08-993-170A-56    | Sequence 56, Appl | 1120 | 6 | 2.2 | 652 | 2 | US-08-993-722A-54    | Sequence 54, Appl  |
| 1048 | 6 | 2.2 | 651 | 2 | US-08-993-170A-58    | Sequence 58, Appl | 1121 | 6 | 2.2 | 652 | 2 | US-08-993-722A-54    | Sequence 54, Appl  |



|      |   |     |     |   |                    |                   |      |   |     |     |   |                    |                   |
|------|---|-----|-----|---|--------------------|-------------------|------|---|-----|-----|---|--------------------|-------------------|
| 1122 | 6 | 2.2 | 652 | 2 | US-08-993-722A-60  | Sequence 60, App1 | 1195 | 6 | 2.2 | 652 | 2 | US-08-993-775B-62  | Sequence 62, App1 |
| 1123 | 6 | 2.2 | 652 | 2 | US-08-993-722A-62  | Sequence 62, App1 | 1196 | 6 | 2.2 | 652 | 2 | US-08-993-775B-64  | Sequence 64, App1 |
| 1124 | 6 | 2.2 | 652 | 2 | US-08-993-722A-64  | Sequence 64, App1 | 1197 | 6 | 2.2 | 652 | 2 | US-08-993-775B-66  | Sequence 66, App1 |
| 1125 | 6 | 2.2 | 652 | 2 | US-08-993-722A-66  | Sequence 66, App1 | 1198 | 6 | 2.2 | 652 | 2 | US-08-993-775B-68  | Sequence 68, App1 |
| 1126 | 6 | 2.2 | 652 | 2 | US-08-993-722A-68  | Sequence 68, App1 | 1199 | 6 | 2.2 | 652 | 2 | US-08-993-775B-98  | Sequence 98, App1 |
| 1127 | 6 | 2.2 | 652 | 2 | US-08-993-722A-98  | Sequence 98, App1 | 1200 | 6 | 2.2 | 652 | 2 | US-08-993-775B-108 | Sequence 108, App |
| 1128 | 6 | 2.2 | 652 | 2 | US-08-993-722A-108 | Sequence 108, App | 1201 | 6 | 2.2 | 652 | 2 | US-08-993-775B-110 | Sequence 110, App |
| 1129 | 6 | 2.2 | 652 | 2 | US-08-993-722A-110 | Sequence 110, App | 1202 | 6 | 2.2 | 652 | 2 | US-08-993-775B-111 | Sequence 111, App |
| 1130 | 6 | 2.2 | 652 | 2 | US-08-993-722A-111 | Sequence 111, App | 1203 | 6 | 2.2 | 652 | 2 | US-08-993-775B-113 | Sequence 113, App |
| 1131 | 6 | 2.2 | 652 | 2 | US-08-993-722A-113 | Sequence 113, App | 1204 | 6 | 2.2 | 652 | 2 | US-09-377-466B-2   | Sequence 2, App1  |
| 1132 | 6 | 2.2 | 652 | 2 | US-08-993-170A-2   | Sequence 2, App1  | 1205 | 6 | 2.2 | 652 | 2 | US-09-377-466B-4   | Sequence 4, App1  |
| 1133 | 6 | 2.2 | 652 | 2 | US-08-993-170A-4   | Sequence 4, App1  | 1206 | 6 | 2.2 | 652 | 2 | US-09-377-466B-6   | Sequence 6, App1  |
| 1134 | 6 | 2.2 | 652 | 2 | US-08-993-170A-6   | Sequence 6, App1  | 1207 | 6 | 2.2 | 652 | 2 | US-09-427-770-2    | Sequence 2, App1  |
| 1135 | 6 | 2.2 | 652 | 2 | US-08-993-170A-8   | Sequence 8, App1  | 1208 | 6 | 2.2 | 652 | 2 | US-09-427-770-4    | Sequence 4, App1  |
| 1136 | 6 | 2.2 | 652 | 2 | US-08-993-170A-10  | Sequence 10, App1 | 1209 | 6 | 2.2 | 652 | 2 | US-09-427-770-6    | Sequence 6, App1  |
| 1137 | 6 | 2.2 | 652 | 2 | US-08-993-170A-12  | Sequence 12, App1 | 1210 | 6 | 2.2 | 652 | 2 | US-09-427-770-8    | Sequence 8, App1  |
| 1138 | 6 | 2.2 | 652 | 2 | US-08-993-170A-14  | Sequence 14, App1 | 1211 | 6 | 2.2 | 652 | 2 | US-09-427-770-10   | Sequence 10, App1 |
| 1139 | 6 | 2.2 | 652 | 2 | US-08-993-170A-16  | Sequence 16, App1 | 1212 | 6 | 2.2 | 652 | 2 | US-09-427-770-12   | Sequence 12, App1 |
| 1140 | 6 | 2.2 | 652 | 2 | US-08-993-170A-18  | Sequence 18, App1 | 1213 | 6 | 2.2 | 652 | 2 | US-09-427-770-14   | Sequence 14, App1 |
| 1141 | 6 | 2.2 | 652 | 2 | US-08-993-170A-20  | Sequence 20, App1 | 1214 | 6 | 2.2 | 652 | 2 | US-09-427-770-16   | Sequence 16, App1 |
| 1142 | 6 | 2.2 | 652 | 2 | US-08-993-170A-22  | Sequence 22, App1 | 1215 | 6 | 2.2 | 652 | 2 | US-09-427-770-18   | Sequence 18, App1 |
| 1143 | 6 | 2.2 | 652 | 2 | US-08-993-170A-24  | Sequence 24, App1 | 1216 | 6 | 2.2 | 652 | 2 | US-09-427-770-20   | Sequence 20, App1 |
| 1144 | 6 | 2.2 | 652 | 2 | US-08-993-170A-26  | Sequence 26, App1 | 1217 | 6 | 2.2 | 652 | 2 | US-09-427-770-22   | Sequence 22, App1 |
| 1145 | 6 | 2.2 | 652 | 2 | US-08-993-170A-28  | Sequence 28, App1 | 1218 | 6 | 2.2 | 652 | 2 | US-09-427-770-24   | Sequence 24, App1 |
| 1146 | 6 | 2.2 | 652 | 2 | US-08-993-170A-30  | Sequence 30, App1 | 1219 | 6 | 2.2 | 652 | 2 | US-09-427-770-26   | Sequence 26, App1 |
| 1147 | 6 | 2.2 | 652 | 2 | US-08-993-170A-32  | Sequence 32, App1 | 1220 | 6 | 2.2 | 652 | 2 | US-09-427-770-28   | Sequence 28, App1 |
| 1148 | 6 | 2.2 | 652 | 2 | US-08-993-170A-34  | Sequence 34, App1 | 1221 | 6 | 2.2 | 652 | 2 | US-09-427-770-30   | Sequence 30, App1 |
| 1149 | 6 | 2.2 | 652 | 2 | US-08-993-170A-36  | Sequence 36, App1 | 1222 | 6 | 2.2 | 652 | 2 | US-09-427-770-32   | Sequence 32, App1 |
| 1150 | 6 | 2.2 | 652 | 2 | US-08-993-170A-38  | Sequence 38, App1 | 1223 | 6 | 2.2 | 652 | 2 | US-09-427-770-34   | Sequence 34, App1 |
| 1151 | 6 | 2.2 | 652 | 2 | US-08-993-170A-40  | Sequence 40, App1 | 1224 | 6 | 2.2 | 652 | 2 | US-09-427-770-36   | Sequence 36, App1 |
| 1152 | 6 | 2.2 | 652 | 2 | US-08-993-170A-42  | Sequence 42, App1 | 1225 | 6 | 2.2 | 652 | 2 | US-09-427-770-38   | Sequence 38, App1 |
| 1153 | 6 | 2.2 | 652 | 2 | US-08-993-170A-44  | Sequence 44, App1 | 1226 | 6 | 2.2 | 652 | 2 | US-09-427-770-40   | Sequence 40, App1 |
| 1154 | 6 | 2.2 | 652 | 2 | US-08-993-170A-46  | Sequence 46, App1 | 1227 | 6 | 2.2 | 652 | 2 | US-09-427-770-42   | Sequence 42, App1 |
| 1155 | 6 | 2.2 | 652 | 2 | US-08-993-170A-48  | Sequence 48, App1 | 1228 | 6 | 2.2 | 652 | 2 | US-09-427-770-44   | Sequence 44, App1 |
| 1156 | 6 | 2.2 | 652 | 2 | US-08-993-170A-50  | Sequence 50, App1 | 1229 | 6 | 2.2 | 652 | 2 | US-09-427-770-46   | Sequence 46, App1 |
| 1157 | 6 | 2.2 | 652 | 2 | US-08-993-170A-54  | Sequence 54, App1 | 1230 | 6 | 2.2 | 652 | 2 | US-09-427-770-48   | Sequence 48, App1 |
| 1158 | 6 | 2.2 | 652 | 2 | US-08-993-170A-60  | Sequence 60, App1 | 1231 | 6 | 2.2 | 652 | 2 | US-09-427-770-50   | Sequence 50, App1 |
| 1159 | 6 | 2.2 | 652 | 2 | US-08-993-170A-62  | Sequence 62, App1 | 1232 | 6 | 2.2 | 652 | 2 | US-09-427-770-54   | Sequence 54, App1 |
| 1160 | 6 | 2.2 | 652 | 2 | US-08-993-170A-64  | Sequence 64, App1 | 1233 | 6 | 2.2 | 652 | 2 | US-09-427-770-60   | Sequence 60, App1 |
| 1161 | 6 | 2.2 | 652 | 2 | US-08-993-170A-66  | Sequence 66, App1 | 1234 | 6 | 2.2 | 652 | 2 | US-09-427-770-62   | Sequence 62, App1 |
| 1162 | 6 | 2.2 | 652 | 2 | US-08-993-170A-68  | Sequence 68, App1 | 1235 | 6 | 2.2 | 652 | 2 | US-09-427-770-64   | Sequence 64, App1 |
| 1163 | 6 | 2.2 | 652 | 2 | US-08-993-170A-98  | Sequence 98, App1 | 1236 | 6 | 2.2 | 652 | 2 | US-09-427-770-66   | Sequence 66, App1 |
| 1164 | 6 | 2.2 | 652 | 2 | US-08-993-170A-108 | Sequence 108, App | 1237 | 6 | 2.2 | 652 | 2 | US-09-427-770-98   | Sequence 98, App1 |
| 1165 | 6 | 2.2 | 652 | 2 | US-08-993-170A-110 | Sequence 110, App | 1238 | 6 | 2.2 | 652 | 2 | US-09-427-770-108  | Sequence 108, App |
| 1166 | 6 | 2.2 | 652 | 2 | US-08-993-170A-111 | Sequence 111, App | 1239 | 6 | 2.2 | 652 | 2 | US-09-427-770-110  | Sequence 110, App |
| 1167 | 6 | 2.2 | 652 | 2 | US-08-993-170A-113 | Sequence 113, App | 1240 | 6 | 2.2 | 652 | 2 | US-09-427-770-110  | Sequence 111, App |
| 1168 | 6 | 2.2 | 652 | 2 | US-08-993-775B-2   | Sequence 2, App1  | 1241 | 6 | 2.2 | 652 | 2 | US-09-427-770-111  | Sequence 113, App |
| 1169 | 6 | 2.2 | 652 | 2 | US-08-993-775B-4   | Sequence 4, App1  | 1242 | 6 | 2.2 | 652 | 2 | US-09-427-770-113  | Sequence 2, App1  |
| 1170 | 6 | 2.2 | 652 | 2 | US-08-993-775B-6   | Sequence 6, App1  | 1243 | 6 | 2.2 | 652 | 2 | US-09-427-769-2    | Sequence 2, App1  |
| 1171 | 6 | 2.2 | 652 | 2 | US-08-993-775B-8   | Sequence 8, App1  | 1244 | 6 | 2.2 | 652 | 2 | US-09-427-769-4    | Sequence 4, App1  |
| 1172 | 6 | 2.2 | 652 | 2 | US-08-993-775B-10  | Sequence 10, App1 | 1245 | 6 | 2.2 | 652 | 2 | US-09-427-769-6    | Sequence 6, App1  |
| 1173 | 6 | 2.2 | 652 | 2 | US-08-993-775B-12  | Sequence 12, App1 | 1246 | 6 | 2.2 | 652 | 2 | US-09-427-769-8    | Sequence 8, App1  |
| 1174 | 6 | 2.2 | 652 | 2 | US-08-993-775B-14  | Sequence 14, App1 | 1247 | 6 | 2.2 | 652 | 2 | US-09-427-769-10   | Sequence 10, App1 |
| 1175 | 6 | 2.2 | 652 | 2 | US-08-993-775B-16  | Sequence 16, App1 | 1248 | 6 | 2.2 | 652 | 2 | US-09-427-769-12   | Sequence 12, App1 |
| 1176 | 6 | 2.2 | 652 | 2 | US-08-993-775B-18  | Sequence 18, App1 | 1249 | 6 | 2.2 | 652 | 2 | US-09-427-769-14   | Sequence 14, App1 |
| 1177 | 6 | 2.2 | 652 | 2 | US-08-993-775B-20  | Sequence 20, App1 | 1250 | 6 | 2.2 | 652 | 2 | US-09-427-769-16   | Sequence 16, App1 |
| 1178 | 6 | 2.2 | 652 | 2 | US-08-993-775B-22  | Sequence 22, App1 | 1251 | 6 | 2.2 | 652 | 2 | US-09-427-769-18   | Sequence 18, App1 |
| 1179 | 6 | 2.2 | 652 | 2 | US-08-993-775B-24  | Sequence 24, App1 | 1252 | 6 | 2.2 | 652 | 2 | US-09-427-769-20   | Sequence 20, App1 |
| 1180 | 6 | 2.2 | 652 | 2 | US-08-993-775B-26  | Sequence 26, App1 | 1253 | 6 | 2.2 | 652 | 2 | US-09-427-769-22   | Sequence 22, App1 |
| 1181 | 6 | 2.2 | 652 | 2 | US-08-993-775B-28  | Sequence 28, App1 | 1254 | 6 | 2.2 | 652 | 2 | US-09-427-769-24   | Sequence 24, App1 |
| 1182 | 6 | 2.2 | 652 | 2 | US-08-993-775B-30  | Sequence 30, App1 | 1255 | 6 | 2.2 | 652 | 2 | US-09-427-769-26   | Sequence 26, App1 |
| 1183 | 6 | 2.2 | 652 | 2 | US-08-993-775B-32  | Sequence 32, App1 | 1256 | 6 | 2.2 | 652 | 2 | US-09-427-769-28   | Sequence 28, App1 |
| 1184 | 6 | 2.2 | 652 | 2 | US-08-993-775B-34  | Sequence 34, App1 | 1257 | 6 | 2.2 | 652 | 2 | US-09-427-769-30   | Sequence 30, App1 |
| 1185 | 6 | 2.2 | 652 | 2 | US-08-993-775B-36  | Sequence 36, App1 | 1258 | 6 | 2.2 | 652 | 2 | US-09-427-769-32   | Sequence 32, App1 |
| 1186 | 6 | 2.2 | 652 | 2 | US-08-993-775B-38  | Sequence 38, App1 | 1259 | 6 | 2.2 | 652 | 2 | US-09-427-769-34   | Sequence 34, App1 |
| 1187 | 6 | 2.2 | 652 | 2 | US-08-993-775B-40  | Sequence 40, App1 | 1260 | 6 | 2.2 | 652 | 2 | US-09-427-769-36   | Sequence 36, App1 |
| 1188 | 6 | 2.2 | 652 | 2 | US-08-993-775B-42  | Sequence 42, App1 | 1261 | 6 | 2.2 | 652 | 2 | US-09-427-769-38   | Sequence 38, App1 |
| 1189 | 6 | 2.2 | 652 | 2 | US-08-993-775B-44  | Sequence 44, App1 | 1262 | 6 | 2.2 | 652 | 2 | US-09-427-769-40   | Sequence 40, App1 |
| 1190 | 6 | 2.2 | 652 | 2 | US-08-993-775B-46  | Sequence 46, App1 | 1263 | 6 | 2.2 | 652 | 2 | US-09-427-769-42   | Sequence 42, App1 |
| 1191 | 6 | 2.2 | 652 | 2 | US-08-993-775B-48  | Sequence 48, App1 | 1264 | 6 | 2.2 | 652 | 2 | US-09-427-769-44   | Sequence 44, App1 |
| 1192 | 6 | 2.2 | 652 | 2 | US-08-993-775B-50  | Sequence 50, App1 | 1265 | 6 | 2.2 | 652 | 2 | US-09-427-769-46   | Sequence 46, App1 |
| 1193 | 6 | 2.2 | 652 | 2 | US-08-993-775B-54  | Sequence 54, App1 | 1266 | 6 | 2.2 | 652 | 2 | US-09-427-769-58   | Sequence 48, App1 |
| 1194 | 6 | 2.2 | 652 | 2 | US-08-993-775B-60  | Sequence 60, App1 | 1267 | 6 | 2.2 | 652 | 2 | US-09-427-769-60   | Sequence 50, App1 |

|      |   |     |     |   |                      |                    |      |   |     |     |   |                      |                   |
|------|---|-----|-----|---|----------------------|--------------------|------|---|-----|-----|---|----------------------|-------------------|
| 1268 | 6 | 2.2 | 652 | 2 | US-09-427-769-54     | Sequence 54, App1  | 1341 | 6 | 2.2 | 711 | 2 | US-09-134-000C-5325  | Sequence 5325, Ap |
| 1269 | 6 | 2.2 | 652 | 2 | US-09-427-769-60     | Sequence 60, App1  | 1342 | 6 | 2.2 | 712 | 2 | US-09-964-992A-1     | Sequence 1, App11 |
| 1270 | 6 | 2.2 | 652 | 2 | US-09-427-769-62     | Sequence 62, App1  | 1343 | 6 | 2.2 | 711 | 1 | US-08-587-889-2      | Sequence 2, App11 |
| 1271 | 6 | 2.2 | 652 | 2 | US-09-427-769-64     | Sequence 64, App1  | 1344 | 6 | 2.2 | 712 | 1 | US-08-980-060-5      | Sequence 5, App11 |
| 1272 | 6 | 2.2 | 652 | 2 | US-09-427-769-66     | Sequence 66, App1  | 1345 | 6 | 2.2 | 712 | 2 | US-09-307-185-5      | Sequence 5, App11 |
| 1273 | 6 | 2.2 | 652 | 2 | US-09-427-769-68     | Sequence 68, App1  | 1346 | 6 | 2.2 | 712 | 2 | US-09-773-753-5      | Sequence 5, App11 |
| 1274 | 6 | 2.2 | 652 | 2 | US-09-427-769-98     | Sequence 98, App1  | 1347 | 6 | 2.2 | 712 | 2 | US-09-771-161A-262   | Sequence 262, App |
| 1275 | 6 | 2.2 | 652 | 2 | US-09-427-769-108    | Sequence 108, App  | 1348 | 6 | 2.2 | 712 | 2 | US-09-771-161A-263   | Sequence 263, App |
| 1276 | 6 | 2.2 | 652 | 2 | US-09-427-769-110    | Sequence 110, App  | 1349 | 6 | 2.2 | 712 | 2 | US-09-771-161A-264   | Sequence 264, App |
| 1277 | 6 | 2.2 | 652 | 2 | US-09-427-769-111    | Sequence 111, App  | 1350 | 6 | 2.2 | 712 | 5 | PCT-US96-09193-2     | Sequence 2, App11 |
| 1278 | 6 | 2.2 | 652 | 2 | US-09-427-769-113    | Sequence 113, App  | 1351 | 6 | 2.2 | 713 | 2 | US-09-964-992A-2     | Sequence 2, App11 |
| 1279 | 6 | 2.2 | 652 | 2 | US-10-232-665-2      | Sequence 2, App11  | 1352 | 6 | 2.2 | 714 | 2 | US-09-252-991A-31772 | Sequence 31772, A |
| 1280 | 6 | 2.2 | 652 | 2 | US-10-232-665-4      | Sequence 4, App11  | 1353 | 6 | 2.2 | 717 | 2 | US-09-854-122-49     | Sequence 49, App1 |
| 1281 | 6 | 2.2 | 652 | 2 | US-10-232-665-6      | Sequence 6, App11  | 1354 | 6 | 2.2 | 724 | 2 | US-09-949-016-10487  | Sequence 10487, A |
| 1282 | 6 | 2.2 | 652 | 5 | PCT-US92-00040-2     | Sequence 6, App11  | 1355 | 6 | 2.2 | 725 | 2 | US-09-902-540-14611  | Sequence 14611, A |
| 1283 | 6 | 2.2 | 652 | 7 | 5187091-2            | Patent No. 5187091 | 1356 | 6 | 2.2 | 739 | 2 | US-09-328-352-6048   | Sequence 6048, Ap |
| 1284 | 6 | 2.2 | 653 | 2 | US-08-996-441B-100   | Sequence 100, App  | 1357 | 6 | 2.2 | 743 | 2 | US-09-708-392-1      | Sequence 1, App11 |
| 1285 | 6 | 2.2 | 653 | 2 | US-08-993-722A-100   | Sequence 100, App  | 1358 | 6 | 2.2 | 744 | 1 | US-08-764-100-25     | Sequence 25, App1 |
| 1286 | 6 | 2.2 | 653 | 2 | US-08-993-170A-100   | Sequence 100, App  | 1359 | 6 | 2.2 | 748 | 2 | US-09-252-991A-21696 | Sequence 21696, A |
| 1287 | 6 | 2.2 | 653 | 2 | US-08-993-775B-100   | Sequence 100, App  | 1360 | 6 | 2.2 | 749 | 2 | US-08-997-685A-10    | Sequence 10, App1 |
| 1288 | 6 | 2.2 | 653 | 2 | US-09-377-466B-8     | Sequence 8, App11  | 1361 | 6 | 2.2 | 749 | 2 | US-08-957-610A-652   | Sequence 652, App |
| 1289 | 6 | 2.2 | 653 | 2 | US-09-377-466B-10    | Sequence 10, App1  | 1362 | 6 | 2.2 | 749 | 2 | US-08-949-016-6004   | Sequence 6004, Ap |
| 1290 | 6 | 2.2 | 653 | 2 | US-09-377-466B-12    | Sequence 12, App1  | 1363 | 6 | 2.2 | 750 | 2 | US-09-949-016-6004   | Sequence 6004, Ap |
| 1291 | 6 | 2.2 | 653 | 2 | US-09-377-466B-14    | Sequence 14, App1  | 1364 | 6 | 2.2 | 750 | 2 | US-09-949-016-6782   | Sequence 6792, Ap |
| 1292 | 6 | 2.2 | 653 | 2 | US-09-377-466B-16    | Sequence 16, App1  | 1365 | 6 | 2.2 | 750 | 2 | US-09-949-016-6793   | Sequence 6793, Ap |
| 1293 | 6 | 2.2 | 653 | 2 | US-09-377-466B-18    | Sequence 18, App1  | 1366 | 6 | 2.2 | 750 | 2 | US-09-948-4296-63    | Sequence 63, App1 |
| 1294 | 6 | 2.2 | 653 | 2 | US-09-377-466B-20    | Sequence 20, App1  | 1367 | 6 | 2.2 | 751 | 1 | US-08-843-530B-32    | Sequence 32, App1 |
| 1295 | 6 | 2.2 | 653 | 2 | US-09-377-466B-22    | Sequence 22, App1  | 1368 | 6 | 2.2 | 751 | 2 | US-09-636-728-29     | Sequence 29, App1 |
| 1296 | 6 | 2.2 | 653 | 2 | US-09-377-466B-24    | Sequence 24, App1  | 1369 | 6 | 2.2 | 751 | 2 | US-09-949-016-9533   | Sequence 9533, Ap |
| 1297 | 6 | 2.2 | 653 | 2 | US-09-377-466B-37    | Sequence 37, App1  | 1370 | 6 | 2.2 | 751 | 2 | US-09-949-016-9533   | Sequence 9534, Ap |
| 1298 | 6 | 2.2 | 653 | 2 | US-09-377-466B-39    | Sequence 39, App1  | 1371 | 6 | 2.2 | 751 | 2 | US-09-949-016-9535   | Sequence 9535, Ap |
| 1299 | 6 | 2.2 | 653 | 2 | US-09-427-770-100    | Sequence 100, App  | 1372 | 6 | 2.2 | 751 | 2 | US-09-949-016-9536   | Sequence 9536, Ap |
| 1300 | 6 | 2.2 | 653 | 2 | US-09-427-769-100    | Sequence 100, App  | 1373 | 6 | 2.2 | 751 | 2 | US-09-949-016-9537   | Sequence 9537, Ap |
| 1301 | 6 | 2.2 | 653 | 2 | US-10-232-665-8      | Sequence 8, App11  | 1374 | 6 | 2.2 | 751 | 2 | US-09-949-016-9538   | Sequence 9538, Ap |
| 1302 | 6 | 2.2 | 653 | 2 | US-10-232-665-10     | Sequence 10, App1  | 1375 | 6 | 2.2 | 751 | 2 | US-09-949-016-9539   | Sequence 9539, Ap |
| 1303 | 6 | 2.2 | 653 | 2 | US-10-232-665-12     | Sequence 12, App1  | 1376 | 6 | 2.2 | 751 | 2 | US-09-949-016-9540   | Sequence 9540, Ap |
| 1304 | 6 | 2.2 | 653 | 2 | US-10-232-665-14     | Sequence 14, App1  | 1377 | 6 | 2.2 | 751 | 2 | US-09-949-016-9542   | Sequence 9542, Ap |
| 1305 | 6 | 2.2 | 653 | 2 | US-10-232-665-16     | Sequence 16, App1  | 1378 | 6 | 2.2 | 751 | 2 | US-09-949-016-9542   | Sequence 9542, Ap |
| 1306 | 6 | 2.2 | 653 | 2 | US-10-232-665-18     | Sequence 18, App1  | 1379 | 6 | 2.2 | 751 | 2 | US-09-949-016-9543   | Sequence 9543, Ap |
| 1307 | 6 | 2.2 | 653 | 2 | US-10-232-665-20     | Sequence 20, App1  | 1380 | 6 | 2.2 | 751 | 2 | US-09-949-016-9544   | Sequence 9544, Ap |
| 1308 | 6 | 2.2 | 653 | 2 | US-10-232-665-22     | Sequence 22, App1  | 1381 | 6 | 2.2 | 751 | 2 | US-10-104-047-1975   | Sequence 1975, Ap |
| 1309 | 6 | 2.2 | 653 | 2 | US-10-232-665-24     | Sequence 24, App1  | 1382 | 6 | 2.2 | 752 | 2 | US-09-134-000C-6691  | Sequence 6691, Ap |
| 1310 | 6 | 2.2 | 653 | 2 | US-10-232-665-37     | Sequence 37, App1  | 1383 | 6 | 2.2 | 755 | 2 | US-08-258-188-2      | Sequence 2, App11 |
| 1311 | 6 | 2.2 | 653 | 2 | US-10-232-665-39     | Sequence 39, App1  | 1384 | 6 | 2.2 | 758 | 1 | US-08-526-813-2      | Sequence 2, App11 |
| 1312 | 6 | 2.2 | 656 | 2 | US-09-543-681A-7358  | Sequence 7358, Ap  | 1385 | 6 | 2.2 | 758 | 5 | PCT-US95-08554-2     | Sequence 2, App11 |
| 1313 | 6 | 2.2 | 657 | 2 | US-09-583-110-4364   | Sequence 4364, Ap  | 1386 | 6 | 2.2 | 759 | 2 | US-09-252-991A-17841 | Sequence 17841, A |
| 1314 | 6 | 2.2 | 657 | 2 | US-09-107-433-5149   | Sequence 5149, Ap  | 1387 | 6 | 2.2 | 760 | 2 | US-09-513-057C-27    | Sequence 27, App1 |
| 1315 | 6 | 2.2 | 657 | 2 | US-09-769-787-57     | Sequence 57, App1  | 1388 | 6 | 2.2 | 760 | 2 | US-09-746-801A-27    | Sequence 27, App1 |
| 1316 | 6 | 2.2 | 659 | 2 | US-08-996-441B-112   | Sequence 112, App  | 1389 | 6 | 2.2 | 760 | 2 | US-10-719-885-27     | Sequence 27, App1 |
| 1317 | 6 | 2.2 | 659 | 2 | US-08-993-722A-112   | Sequence 112, App  | 1390 | 6 | 2.2 | 765 | 2 | US-09-949-016-9542   | Sequence 10117, A |
| 1318 | 6 | 2.2 | 659 | 2 | US-08-993-170A-112   | Sequence 112, App  | 1391 | 6 | 2.2 | 765 | 2 | US-09-949-016-9543   | Sequence 96, App1 |
| 1319 | 6 | 2.2 | 659 | 2 | US-08-993-775B-112   | Sequence 112, App  | 1392 | 6 | 2.2 | 767 | 2 | US-09-769-787-96     | Sequence 96, App1 |
| 1320 | 6 | 2.2 | 659 | 2 | US-09-427-770-112    | Sequence 112, App  | 1393 | 6 | 2.2 | 769 | 1 | US-08-243-542-4      | Sequence 4, App11 |
| 1321 | 6 | 2.2 | 659 | 2 | US-09-427-769-112    | Sequence 112, App  | 1394 | 6 | 2.2 | 769 | 1 | US-08-477-407-4      | Sequence 4, App11 |
| 1322 | 6 | 2.2 | 661 | 2 | US-09-252-991A-31045 | Sequence 31045, A  | 1395 | 6 | 2.2 | 769 | 2 | US-08-484-355-4      | Sequence 4, App11 |
| 1323 | 6 | 2.2 | 662 | 2 | US-09-902-540-11249  | Sequence 11249, A  | 1396 | 6 | 2.2 | 769 | 2 | US-09-949-016-9605   | Sequence 9605, Ap |
| 1324 | 6 | 2.2 | 664 | 2 | US-09-295-186-17     | Sequence 17, App1  | 1397 | 6 | 2.2 | 775 | 1 | US-09-949-016-9606   | Sequence 9606, Ap |
| 1325 | 6 | 2.2 | 666 | 2 | US-09-964-992A-5     | Sequence 5, App11  | 1398 | 6 | 2.2 | 775 | 1 | US-07-603-133B-13    | Sequence 13, App1 |
| 1326 | 6 | 2.2 | 670 | 1 | US-08-243-542-3      | Sequence 3, App11  | 1399 | 6 | 2.2 | 775 | 2 | US-10-191-436A-2     | Sequence 14, App1 |
| 1327 | 6 | 2.2 | 670 | 1 | US-08-477-407-3      | Sequence 3, App11  | 1400 | 6 | 2.2 | 775 | 2 | US-10-191-436A-2     | Sequence 2, App11 |
| 1328 | 6 | 2.2 | 670 | 1 | US-08-484-355-3      | Sequence 3, App11  | 1401 | 6 | 2.2 | 781 | 2 | US-09-252-991A-26207 | Sequence 26207, A |
| 1329 | 6 | 2.2 | 671 | 2 | US-09-902-540-11693  | Sequence 11693, A  | 1402 | 6 | 2.2 | 782 | 2 | US-10-449-315-9      | Sequence 9, App11 |
| 1330 | 6 | 2.2 | 672 | 2 | US-09-252-991A-22808 | Sequence 22808, A  | 1403 | 6 | 2.2 | 783 | 1 | US-08-922-837-2      | Sequence 2, App11 |
| 1331 | 6 | 2.2 | 674 | 2 | US-09-949-016-7196   | Sequence 7196, Ap  | 1404 | 6 | 2.2 | 783 | 2 | US-09-351-550-2      | Sequence 2, App11 |
| 1332 | 6 | 2.2 | 675 | 2 | US-09-252-991A-29071 | Sequence 29071, A  | 1405 | 6 | 2.2 | 784 | 2 | US-09-252-991A-20416 | Sequence 20416, A |
| 1333 | 6 | 2.2 | 675 | 2 | US-09-489-039A-12192 | Sequence 12192, A  | 1406 | 6 | 2.2 | 785 | 3 | US-09-430-590A-142   | Sequence 142, App |
| 1334 | 6 | 2.2 | 682 | 2 | US-10-104-047-2390   | Sequence 2390, App | 1407 | 6 | 2.2 | 788 | 1 | US-08-300-900A-2     | Sequence 2, App11 |
| 1335 | 6 | 2.2 | 684 | 2 | US-09-303-518D-721   | Sequence 721, App  | 1408 | 6 | 2.2 | 788 | 1 | US-08-794-042-2      | Sequence 2, App11 |
| 1336 | 6 | 2.2 | 686 | 2 | US-09-107-532A-5118  | Sequence 5118, Ap  | 1409 | 6 | 2.2 | 788 | 5 | PCT-US94-00616-2     | Sequence 2, App11 |
| 1337 | 6 | 2.2 | 693 | 2 | US-09-252-991A-19167 | Sequence 19167, A  | 1410 | 6 | 2.2 | 804 | 2 | US-09-252-991A-21676 | Sequence 21676, A |
| 1338 | 6 | 2.2 | 695 | 2 | US-10-104-047-2395   | Sequence 2395, Ap  | 1411 | 6 | 2.2 | 808 | 2 | US-09-252-991A-19470 | Sequence 19470, A |
| 1339 | 6 | 2.2 | 700 | 2 | US-09-854-122-50     | Sequence 50, App1  | 1412 | 6 | 2.2 | 814 | 2 | US-09-248-796A-16309 | Sequence 16309, A |
| 1340 | 6 | 2.2 | 708 | 2 | US-09-252-991A-32082 | Sequence 32082, A  | 1413 | 6 | 2.2 | 820 | 2 | US-09-313-677-21     | Sequence 21, App1 |

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| 1414 | 6 | 2.2 | 823  | 2 | US-09-248-796A-19339 | Sequence 19339, A  |
| 1415 | 6 | 2.2 | 829  | 2 | US-09-514-599-6      | Sequence 6, Appl1  |
| 1416 | 6 | 2.2 | 829  | 2 | US-09-596-024-6      | Sequence 6, Appl1  |
| 1417 | 6 | 2.2 | 829  | 3 | US-09-975-723A-1     | Sequence 1, Appl1  |
| 1418 | 6 | 2.2 | 830  | 2 | US-09-064-199-19     | Sequence 19, Appl1 |
| 1419 | 6 | 2.2 | 832  | 2 | US-09-252-991A-19252 | Sequence 1932, A   |
| 1420 | 6 | 2.2 | 832  | 2 | US-09-489-039A-12438 | Sequence 12438, A  |
| 1421 | 6 | 2.2 | 832  | 2 | US-09-634-252A-4     | Sequence 4, Appl1  |
| 1422 | 6 | 2.2 | 832  | 2 | US-10-094-749-1919   | Sequence 1919, Ap  |
| 1423 | 6 | 2.2 | 855  | 2 | US-09-248-796A-18667 | Sequence 18667, A  |
| 1424 | 6 | 2.2 | 857  | 2 | US-09-252-991A-23956 | Sequence 23956, A  |
| 1425 | 6 | 2.2 | 861  | 1 | US-08-764-100-24     | Sequence 24, Appl1 |
| 1426 | 6 | 2.2 | 862  | 1 | US-09-346-237-1      | Sequence 1, Appl1  |
| 1427 | 6 | 2.2 | 863  | 2 | US-09-619-353-14     | Sequence 14, Appl1 |
| 1428 | 6 | 2.2 | 866  | 2 | US-09-502-540-10786  | Sequence 10786, A  |
| 1429 | 6 | 2.2 | 876  | 2 | US-09-605-703B-1640  | Sequence 1640, Ap  |
| 1430 | 6 | 2.2 | 878  | 2 | US-09-302-540-10577  | Sequence 10577, A  |
| 1431 | 6 | 2.2 | 883  | 2 | US-09-248-796A-20980 | Sequence 20980, A  |
| 1432 | 6 | 2.2 | 898  | 1 | US-08-465-995A-2     | Sequence 2, Appl1  |
| 1433 | 6 | 2.2 | 898  | 1 | US-08-465-995A-4     | Sequence 4, Appl1  |
| 1434 | 6 | 2.2 | 898  | 1 | US-08-465-994C-2     | Sequence 2, Appl1  |
| 1435 | 6 | 2.2 | 898  | 1 | US-08-465-994C-4     | Sequence 4, Appl1  |
| 1436 | 6 | 2.2 | 898  | 1 | US-08-966-145-2      | Sequence 2, Appl1  |
| 1437 | 6 | 2.2 | 898  | 1 | US-08-966-145-4      | Sequence 4, Appl1  |
| 1438 | 6 | 2.2 | 900  | 2 | US-09-252-991A-25011 | Sequence 25011, A  |
| 1439 | 6 | 2.2 | 901  | 2 | US-09-252-991A-25653 | Sequence 25653, A  |
| 1440 | 6 | 2.2 | 907  | 2 | US-09-252-991A-24114 | Sequence 24114, A  |
| 1441 | 6 | 2.2 | 908  | 2 | US-09-252-991A-24682 | Sequence 24682, A  |
| 1442 | 6 | 2.2 | 910  | 2 | US-09-997-685A-2     | Sequence 2, Appl1  |
| 1443 | 6 | 2.2 | 910  | 2 | US-09-086-436-31     | Sequence 31, Appl1 |
| 1444 | 6 | 2.2 | 912  | 2 | US-08-943-768-2      | Sequence 2, Appl1  |
| 1445 | 6 | 2.2 | 912  | 2 | US-08-865-960-2      | Sequence 2, Appl1  |
| 1446 | 6 | 2.2 | 913  | 2 | US-08-871-089-4      | Sequence 4, Appl1  |
| 1447 | 6 | 2.2 | 913  | 2 | US-10-117-604A-4     | Sequence 4, Appl1  |
| 1448 | 6 | 2.2 | 915  | 2 | US-09-346-237-2      | Sequence 2, Appl1  |
| 1449 | 6 | 2.2 | 920  | 1 | US-08-101-593-2      | Sequence 2, Appl1  |
| 1450 | 6 | 2.2 | 920  | 1 | US-08-101-593-4      | Sequence 4, Appl1  |
| 1451 | 6 | 2.2 | 921  | 2 | US-09-514-599-2      | Sequence 2, Appl1  |
| 1452 | 6 | 2.2 | 921  | 2 | US-09-996-024-2      | Sequence 2, Appl1  |
| 1453 | 6 | 2.2 | 926  | 2 | US-09-313-677-2      | Sequence 2, Appl1  |
| 1454 | 6 | 2.2 | 928  | 1 | US-08-474-140-11     | Sequence 11, Appl1 |
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Sequence 18, Appl1

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US-10-013-917A-437

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US-09-758-759-167

Sequence 167, App

RESULT 1

US-09-991-181-169

Sequence 169, Application US/09991181

Patent No. 6913919

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

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APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P27301C53

CURRENT APPLICATION NUMBER: US/09/991,181

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PRIOR FILING DATE: 1997-06-16

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PRIOR FILING DATE: 1997-10-17

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PRIOR FILING DATE: 1998-04-28

PRIOR APPLICATION NUMBER: 60/084600

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; PRIOR FILING DATE: 1998-07-09

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; Sequence 169, Application US/09990444
; Patent No. 6930170
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumaas, Daniel
; APPLICANT: Matanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC19
; CURRENT APPLICATION NUMBER: US/09/990,444
; CURRENT FILING DATE: 2001-11-14
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DB 61 QIKGLTGASGKVALLELGCGTGANFOFYPPGCRVTCLDNPHEKELTSMAMENRLQYE 120  
QY 121 RFVYVARGEDMRQLADGSMDDVVCTVLGCSVQSPRKYLGVRVRLRPGVLFWEHVAEPPY 180  
DB 121 RFVYVARGEDMRQLADGSMDDVVCTVLGCSVQSPRKYLGVRVRLRPGVLFWEHVAEPPY 180  
QY 181 GSWAFWMOQVPEPTWGHIDGCLTFETWKDLENQFSEIOMEROPPLKMLPVGPHING 240  
DB 181 GSWAFWMOQVPEPTWGHIDGCLTFETWKDLENQFSEIOMEROPPLKMLPVGPHING 240  
QY 241 KAVKQSPSSKALICSPSLQLEQATHPYIPLRGT 277  
DB 241 KAVKQSPSSKALICSPSLQLEQATHPYIPLRGT 277

RESULT 3  
US-09-997-333-169  
Sequence 169, Application US/09997333  
Patent No. 6953836  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertlisen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Peoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumaas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC27  
CURRENT APPLICATION NUMBER: US/09/997,333  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16

[illegible]

;; PRIOR APPLICATION NUMBER: 60/090863  
;; PRIOR FILING DATE: 1998-06-26  
;; PRIOR APPLICATION NUMBER: 60/091360  
;; PRIOR FILING DATE: 1998-07-01  
;; PRIOR APPLICATION NUMBER: 60/091478  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091544  
;; PRIOR FILING DATE: 1998-07-01  
;; PRIOR APPLICATION NUMBER: 60/091519  
;; PRIOR FILING DATE: 1998-07-02  
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;; PRIOR APPLICATION NUMBER: 60/091633  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 2; Length 277;  
Best Local Similarity 100.0%; Pred. No. 1,2e-255;  
Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDLVLPLQLVLLTLPLHMLLGGWPLCKSYPPYLAVALTPKSNRMESKKELFS 60  
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QY 61 QIKGLTGASGKVALLEIGCGTGANFOFYPPGCRVTCLDENPHEKFLTKSMAENRHLQYE 120  
DB 61 QIKGLTGASGKVALLEIGCGTGANFOFYPPGCRVTCLDENPHEKFLTKSMAENRHLQYE 120  
QY 121 RFVVAPEEDMROLDAGSDMDVVCVLVCSVQSPKXVQEVRRVIRPGCVLFPMENHVAEPY 180  
DB 121 RFVVAPEEDMROLDAGSDMDVVCVLVCSVQSPKXVQEVRRVIRPGCVLFPMENHVAEPY 180  
QY 181 GSAFAMQOYFEPFWKIGIGGCCITRETKDLENAQFSEIOMEROPPLKMLPVGPHIMG 240  
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QY 241 KAVKQSPSSKALICSPFSQLQEQATHQPIYLPFRGT 277  
DB 241 KAVKQSPSSKALICSPFSQLQEQATHQPIYLPFRGT 277

RESULT 4  
US-09-992-598-169  
; Sequence 169, Application US/09992598  
; Patent No. 6956108  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Deenoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
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; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey

;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; TITLE OF INVENTION: Acids Encoding the Same  
;; FILE REFERENCE: P2730PIC20  
;; CURRENT APPLICATION NUMBER: US/09/992,598  
;; CURRENT FILING DATE: 2001-11-14  
;; PRIOR APPLICATION NUMBER: 60/049787  
;; PRIOR FILING DATE: 1997-06-16  
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;; PRIOR FILING DATE: 1998-06-10



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PRIOR APPLICATION NUMBER: 60/090678  
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PRIOR FILING DATE: 1998-06-26  
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PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 2; Length 277;  
Best Local Similarity 100.0%; Pred No. 1.2e-255;  
Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MDLIVPLQLVLLVLLTLPHLMALGCMQPLCKSYPPYLMVAVLTPKSNRMESKKEFLFS 60  
Db 1 MDLIVPLQLVLLVLLTLPHLMALGCMQPLCKSYPPYLMVAVLTPKSNRMESKKEFLFS 60

Qy 61 QIKGLTGASGKVALLELGGGTGANGFOYPPGCAVYTLDPNPHKELTYSMAENRHLQYE 120  
Db 61 QIKGLTGASGKVALLELGGGTGANGFOYPPGCAVYTLDPNPHKELTYSMAENRHLQYE 120

Qy 121 RFWVARGEDMRDLADSDMDVVVCTVLGVSQSPKVLQEVRYLRGCVLFFMEHVAEPY 180  
Db 121 RFWVARGEDMRDLADSDMDVVVCTVLGVSQSPKVLQEVRYLRGCVLFFMEHVAEPY 180

Qy 181 GSWAFMQQVFEBFTWGHIGDCCLTRETWKDLNNAQFSEIOMEROPPLKMLPVGPHING 240  
Db 181 GSWAFMQQVFEBFTWGHIGDCCLTRETWKDLNNAQFSEIOMEROPPLKMLPVGPHING 240

Qy 241 KAVKQSPSSKALICSPSLQLEQATHOPILYPLRGT 277  
Db 241 KAVKQSPSSKALICSPSLQLEQATHOPILYPLRGT 277

RESULT 5  
US-09-989-735-169  
Sequence 169, Application US/09989735  
Patent No. 6972185  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC61  
CURRENT APPLICATION NUMBER: US/09/989,735  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
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PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
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PRIOR FILING DATE: 1998-03-20  
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PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
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;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 2; Length 277;  
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DB 181 GSWAFWMOQVFEPTWKIIGDCCITRETWDLLENAGSEIOMEROPPLKMLPVGPHING 240  
QY 241 KAVKQSPSSKALICSPSLQLEOATHOPTIYLPURGT 277  
DB 241 KAVKQSPSSKALICSPSLQLEOATHOPTIYLPURGT 277

RESULT 6  
US-09-989-726-169  
; Sequence 169, Application US/09989726  
; Patent No. 701811  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Deans, Luc

;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Ferrara, Napoleone  
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;; APPLICANT: Gerber, Hanspeter  
;; APPLICANT: Gerlitsen, Mary E.  
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;; APPLICANT: Guiney, Austin L.  
;; APPLICANT: Kijavlin, Ivar J.  
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;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: P2730P1C60  
;; CURRENT APPLICATION NUMBER: US/09/989,726  
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PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 3; Length 277;  
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QY 121 RFVAVGEDMRQLADSGMDVVVCTVLVCSVQSPRKYLVQEVRYLRPGVLFWEHVAEPY 180  
DB 121 RFVAVGEDMRQLADSGMDVVVCTVLVCSVQSPRKYLVQEVRYLRPGVLFWEHVAEPY 180  
QY 181 GSWAFMWQOVFEPTWKHIGDCCLTRETKDLENAGFSEIQMRQPPPLKMLVYGRIMG 240  
DB 181 GSWAFMWQOVFEPTWKHIGDCCLTRETKDLENAGFSEIQMRQPPPLKMLVYGRIMG 240  
QY 241 KAVKQSPSSKALICSPSLQLEOATHQPIYLPRLGT 277  
DB 241 KAVKQSPSSKALICSPSLQLEOATHQPIYLPRLGT 277

RESULT 7  
US-09-997-514-169  
Sequence 169, Application US/09997514  
Patent No. 7019116  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
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APPLICANT: Gerber, Hanspeter  
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APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P2730P1C46  
CURRENT APPLICATION NUMBER: US/09/997,514  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 3; Length 277;

Best Local Similarity 100.0%; Pred. No. 1,2e-255; Indels 0; Gaps 0;

Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 121 RFVVAPEGEDKROLADGSDVVVCTLVYCSVOSPKVLOEYRVRVLPGGVLFEMEVAEPY 180  
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QY 181 GSWAFMWOQVEPPTWKHIDGCCCLTRETWKDLJENAFSEIQMEROPPLKWLPGPHING 240  
DB 181 GSWAFMWOQVEPPTWKHIDGCCCLTRETWKDLJENAFSEIQMEROPPLKWLPGPHING 240  
QY 241 KAVKOSFSSKALICSPSLQLEOATHOPILPLRGT 277  
DB 241 KAVKOSFSSKALICSPSLQLEOATHOPILPLRGT 277

# RESULT 8

US-09-989-728-169  
Sequence 169, Application US/09989728  
Patent No. 7029873  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
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APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C72  
CURRENT APPLICATION NUMBER: US/09/989,728  
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;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 3; Length 277;

Best Local Similarity 100.0%; Pred. No. 1.2e-255; Indels 0; Gaps 0;

Matches 277; Conservative 0; Mismatches 0;

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QY 121 RFVAVGEMRQIADSGMDVYVCTVLCSVQSRKYLQEVRRVLRPGVLFWEHVAEPY 180  
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QY 181 GSAFWMQOVFEFTWGHIGGCLTRETWKDLENAQFSEIOMEROPPLKMLPVGHING 240  
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QY 241 KAVKQSPSSKALICSPSLQLEQATHTOPILPLRG 277  
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; Patent No. 7034106  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
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; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730PIC37  
; CURRENT APPLICATION NUMBER: US/09/997,349  
; CURRENT FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
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;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182

;; PRIOR FILING DATE: 1998-07-09  
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; Patent No. 7034122  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
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; APPLICANT: Gerritsen, Mary E.  
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; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Guiney, Austin L.  
; APPLICANT: Kijavlin, Ivar J.  
; APPLICANT: Napier, Mary A.  
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; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730PIC38  
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; CURRENT FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
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; PRIOR FILING DATE: 1997-10-17  
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RESULT 11  
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Sequence 169, Application US/09989293A  
Patent No. 7034136

GENERAL INFORMATION:

;; APPLICANT: Ashkenazi, Avi J.  
;; APPLICANT: Baker, Kevin P.  
;; APPLICANT: Botstein, David  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Fong, Sherman  
;; APPLICANT: Gerber, Hanspeter  
;; APPLICANT: Gerltsen, Mary E.  
;; APPLICANT: Goddard, Audrey J.  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Grimaldi, J. Christopher  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Kijavlin, Ivar J.  
;; APPLICANT: Napier, Mary A.  
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;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: P2730P1066  
;; CURRENT APPLICATION NUMBER: US/09/989,293A  
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/ PRIOR APPLICATION NUMBER: 60/089599
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089600
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089653
/ PRIOR FILING DATE: 1998-06-17
/ PRIOR APPLICATION NUMBER: 60/089801
/ PRIOR FILING DATE: 1998-06-18
/ PRIOR APPLICATION NUMBER: 60/089907
/ PRIOR FILING DATE: 1998-06-18
/ PRIOR APPLICATION NUMBER: 60/089908
/ PRIOR FILING DATE: 1998-06-18
/ PRIOR APPLICATION NUMBER: 60/089947
/ PRIOR FILING DATE: 1998-06-19
/ PRIOR APPLICATION NUMBER: 60/089948
/ PRIOR FILING DATE: 1998-06-19
/ PRIOR APPLICATION NUMBER: 60/089952
/ PRIOR FILING DATE: 1998-06-19
/ PRIOR APPLICATION NUMBER: 60/090246
/ PRIOR FILING DATE: 1998-06-22
/ PRIOR APPLICATION NUMBER: 60/090252
/ PRIOR FILING DATE: 1998-06-22
/ PRIOR APPLICATION NUMBER: 60/090254
/ PRIOR FILING DATE: 1998-06-22
/ PRIOR APPLICATION NUMBER: 60/090349
/ PRIOR FILING DATE: 1998-06-23
/ PRIOR APPLICATION NUMBER: 60/090355
/ PRIOR FILING DATE: 1998-06-23
/ PRIOR APPLICATION NUMBER: 60/090429
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090431
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090435
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090444
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090445
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090472
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090535
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090540
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090542
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090557
/ PRIOR FILING DATE: 1998-06-24
/ PRIOR APPLICATION NUMBER: 60/090676
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090678
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090690
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090694
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090695
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090696
/ PRIOR FILING DATE: 1998-06-25
/ PRIOR APPLICATION NUMBER: 60/090862
/ PRIOR FILING DATE: 1998-06-26
/ PRIOR APPLICATION NUMBER: 60/090863

/ PRIOR FILING DATE: 1998-06-26
/ PRIOR APPLICATION NUMBER: 60/091360
/ PRIOR FILING DATE: 1998-07-01
/ PRIOR APPLICATION NUMBER: 60/091478
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091544
/ PRIOR FILING DATE: 1998-07-01
/ PRIOR APPLICATION NUMBER: 60/091519
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091626
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091633
/ PRIOR FILING DATE: 1998-07-02
/ PRIOR APPLICATION NUMBER: 60/091978
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/091982
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/092182
/ PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 277; DB 3; Length 277;
Best Local Similarity 100.0%; Pred. No. 1,26-255;
Matches 277; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDLVPDLQVLVLLTLPLHMLLGCWQPLCKSYFPIYMAVLTPEKSNKMKSKKRELS 60
DB 1 MDLVPDLQVLVLLTLPLHMLLGCWQPLCKSYFPIYMAVLTPEKSNKMKSKKRELS 60
QY 61 QIKGLTGASGKVALLELGGGTGANFQYPPGCRVTCIDNPNPEKLTSTMAENRILQYE 120
DB 61 QIKGLTGASGKVALLELGGGTGANFQYPPGCRVTCIDNPNPEKLTSTMAENRILQYE 120
QY 121 RFVVAPEGDMRQIADGSMNVVCTVLCSVQSPRKVLQEVRRVLRPGVLFMEHVAEY 180
DB 121 RFVVAPEGDMRQIADGSMNVVCTVLCSVQSPRKVLQEVRRVLRPGVLFMEHVAEY 180
QY 181 GSWAFWMOQVFEPETWKHIDGCLTRETWKIDJENAFQFSIOMEROPPLKMPVGPHING 240
DB 181 GSWAFWMOQVFEPETWKHIDGCLTRETWKIDJENAFQFSIOMEROPPLKMPVGPHING 240
QY 241 KAVKOSFSSKALICFSPSLQLEQATHOPITPLRGCT 277
DB 241 KAVKOSFSSKALICFSPSLQLEQATHOPITPLRGCT 277

RESULT 12
US-08-905-223-436
/ Sequence 436, Application US/08905223
/ Patent No. 6222029
/ GENERAL INFORMATION:
/ APPLICANT: Edwards, Jean-Baptiste D.
/ APPLICANT: Duclert, Aymeric
/ APPLICANT: Lacroix, Bruno
/ TITLE OF INVENTION: 5' ESTs FOR SECRETED PROTEINS
/ NUMBER OF SEQUENCES: 503
/ CORRESPONDENCE ADDRESSES:
/ ADDRESSEE: Knobe, Martens, Olson & Bear
/ STREET: 501 West Broadway
/ CITY: San Diego
/ STATE: California
/ COUNTRY: USA
/ ZIP: 92101-3505
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: Win95
/ SOFTWARE: Word
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/905,223
/ FILING DATE:
/ CLASSIFICATION: 536
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Israelisen, Ned A.
```

REGISTRATION NUMBER: 29,655  
REFERENCE/DOCKET NUMBER:  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 235-8550  
TELEFAX: (619) 235-0176  
INFORMATION FOR SEQ ID NO: 436:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 151 amino acids  
TYPE: AMINO ACID  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
ORIGINAL SOURCE:  
ORGANISM: Homo Sapiens  
TISSUE TYPE: Brain  
FEATURE:  
NAME/KEY: sig\_peptide  
LOCATION: -23..-1  
IDENTIFICATION METHOD: Von Heijne matrix  
OTHER INFORMATION: score 7.5  
US-08-905-223-436

Query Match 47.3%; Score 131; DB 2; Length 151;  
Best Local Similarity 100.0%; Pred. No. 7.9e-117;  
Matches 131; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDILVPLQLLLVLLTLPLHMLLGGWQPLCKSYFYLMAVLTPKSNRMESKKEELFS 60  
DB 1 MDILVPLQLLLVLLTLPLHMLLGGWQPLCKSYFYLMAVLTPKSNRMESKKEELFS 60

QY 61 QIRGLTGASGKVALLEIGCGTGANFOYPPGRCVTCIDPDPHEKFLTKMAENRHLQYE 120  
DB 61 QIRGLTGASGKVALLEIGCGTGANFOYPPGRCVTCIDPDPHEKFLTKMAENRHLQYE 120

QY 121 RFFVAPGEDMR 131  
DB 121 RFFVAPGEDMR 131

RESULT 13  
US-09-621-976-4227  
Sequence 4227, Application US/09621976  
Patent No. 6639063  
GENERAL INFORMATION:  
APPLICANT: Dumas Milne Edwards, J.B.  
APPLICANT: Jobert, S.  
APPLICANT: Giordano, J.Y.  
TITLE OF INVENTION: ESTs and Encoded Human Proteins.  
FILE REFERENCE: GENSET.054PR2  
CURRENT APPLICATION NUMBER: US/09/621,976  
CURRENT FILING DATE: 2000-07-21  
NUMBER OF SEQ ID NOS: 19335  
SOFTWARE: Patent.pm  
SEQ ID NO 4227  
LENGTH: 158  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SIGNAL  
LOCATION: -29..-1  
US-09-621-976-4227

Query Match 4.3%; Score 12; DB 2; Length 158;  
Best Local Similarity 100.0%; Pred. No. 0.0018;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 139 DVVVCTLVLCGV 150  
DB 139 DVVVCTLVLCGV 150

RESULT 14  
US-09-252-991A-19858

Sequence 19858, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18  
PRIOR APPLICATION NUMBER: US 60/094,190  
PRIOR FILING DATE: 1998-07-27  
NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 19858  
LENGTH: 281  
TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-19858

Query Match 3.6%; Score 10; DB 2; Length 281;  
Best Local Similarity 100.0%; Pred. No. 0.24;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 161 RRVLRPGVVL 170  
DB 151 RRVLRPGVVL 160

RESULT 15  
US-09-902-540-12005  
Sequence 12005, Application US/09902540  
Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(15849)B  
CURRENT APPLICATION NUMBER: US/09/902,540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217,883  
PRIOR FILING DATE: 2000-07-10  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 12005  
LENGTH: 147  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-12005

Query Match 3.2%; Score 9; DB 2; Length 147;  
Best Local Similarity 100.0%; Pred. No. 1.2;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 162 RVLRRPGVVL 170  
DB 36 RVLRRPGVVL 44

RESULT 16  
US-09-252-991A-20270  
Sequence 20270, Application US/09252991A  
Patent No. 6551795  
GENERAL INFORMATION:  
APPLICANT: Marc J. Rubenfield et al.  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
FILE REFERENCE: 107196.136  
CURRENT APPLICATION NUMBER: US/09/252,991A  
CURRENT FILING DATE: 1999-02-18  
PRIOR APPLICATION NUMBER: US 60/074,788  
PRIOR FILING DATE: 1998-02-18

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; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20270
; LENGTH: 254
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20270

Query Match
Best Local Similarity 100.0%; Score 8; DB 2; Length 254;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 162 LRLPGGV 169
Db 124 LRLPGGV 131

RESULT 17
US-09-583-110-3689
; Sequence 3689, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al.
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; FILE REFERENCE: PATH00-07A
; CURRENT APPLICATION NUMBER: US/09/583,110
; CURRENT FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 3689
; LENGTH: 257
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-583-110-3689

Query Match
Best Local Similarity 100.0%; Score 8; DB 2; Length 257;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 75 LEJGCGTG 82
Db 49 LEJGCGTG 56

RESULT 18
US-09-107-433-4547
; Sequence 4547, Application US/09107433
; Patent No. 6800744
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
; SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGN
; THERAPEUTICS
; NUMBER OF SEQUENCES: 5206
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: <Unknown>
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: <Unknown>
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,433
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085131
; FILING DATE: May 12, 1998
; APPLICATION NUMBER: 60/051553
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 4547:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 267 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Streptococcus pneumoniae
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (8) LOCATION 1...267
; SEQUENCE DESCRIPTION: SEQ ID NO: 4547:
US-09-107-433-4547

Query Match
Best Local Similarity 100.0%; Score 8; DB 2; Length 267;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 75 LEJGCGTG 82
Db 59 LEJGCGTG 66

RESULT 19
US-09-252-991A-22426
; Sequence 22426, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22426
; LENGTH: 436
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22426

Query Match
Best Local Similarity 100.0%; Score 8; DB 2; Length 436;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 164 LRLPGVLF 171
Db 366 LRLPGVLF 373

RESULT 20
US-09-902-540-14332
; Sequence 14332, Application US/09902540
```

Patent No. 6833447  
GENERAL INFORMATION:  
APPLICANT: Goldman, Barry S.  
APPLICANT: Hinkle, Gregory J.  
APPLICANT: Slater, Steven C.  
APPLICANT: Wiegand, Roger C.  
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof  
FILE REFERENCE: 38-10(15849)B  
CURRENT APPLICATION NUMBER: US/09/902,540  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: 60/217,883  
PRIOR FILING DATE: 2000-07-10  
NUMBER OF SEQ ID NOS: 16825  
SEQ ID NO 14332  
LENGTH: 1484  
TYPE: PRT  
ORGANISM: Myxococcus xanthus  
US-09-902-540-14332

Query Match 2.9%; Score 8; DB 2; Length 1484;  
Best Local Similarity 100.0%; Pred. No. 87;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 75 LEIGCGTG 82  
|||||  
Db 1113 LEIGCGTG 1120

RESULT 21  
US-08-978-404B-30  
Sequence 30, Application US/08978404B  
Patent No. 5968782  
GENERAL INFORMATION:  
APPLICANT: Stevens, Richard L.  
TITLE OF INVENTION: MAST CELL PROTEASE THAT CLEAVES  
TITLE OF INVENTION: FIBRINOGEN  
NUMBER OF SEQUENCES: 74  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.  
STREET: 600 Atlantic Avenue  
CITY: Boston  
STATE: MA  
COUNTRY: U.S.A.  
ZIP: 02210-2211  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/978,404B  
FILING DATE: 25-NOV-97  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/032,354  
FILING DATE: 04-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Plumer, Elizabeth R.  
REGISTRATION NUMBER: 36,637  
REFERENCE/DOCKET NUMBER: B0801/7090  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-720-3500  
TELEFAX: 617-720-2441  
TELEX:  
INFORMATION FOR SEQ ID NO: 30:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: No. 5968782e  
US-08-978-404B-30

Query Match 2.5%; Score 7; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 15;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 LLLTLP 19  
|||||  
Db 5 LLLTLP 11

RESULT 22  
US-09-831-683B-36  
Sequence 36, Application US/09831683B  
Patent No. 6891083  
GENERAL INFORMATION:  
APPLICANT: E. I. du Pont de Nemours and Company  
TITLE OF INVENTION: Plant Aminoacyl-tRNA Synthetases  
FILE REFERENCE: B81270  
CURRENT APPLICATION NUMBER: US/09/831,683B  
CURRENT FILING DATE: 2003-02-20  
PRIOR FILING DATE: 1998-11-10  
NUMBER OF SEQ ID NOS: 38  
SOFTWARE: Microsoft Office 97  
SEQ ID NO 36  
LENGTH: 48  
TYPE: PRT  
ORGANISM: Glycine max  
US-09-831-683B-36

Query Match 2.5%; Score 7; DB 2; Length 48;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 154 RKVLQEV 160  
|||||  
Db 9 RKVLQEV 15

RESULT 23  
US-09-991-181-363  
Sequence 363, Application US/09991181  
Patent No. 6913919  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerltsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C53  
CURRENT APPLICATION NUMBER: US/09/991,181  
CURRENT FILING DATE: 2001-11-16  
PRIOR APPLICATION NUMBER: 60/049787





;; PRIOR FILING DATE: 1998-06-26  
;; PRIOR APPLICATION NUMBER: 60/090863  
;; PRIOR FILING DATE: 1998-06-26  
;; PRIOR APPLICATION NUMBER: 60/091360  
;; PRIOR FILING DATE: 1998-07-01  
;; PRIOR APPLICATION NUMBER: 60/091478  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091544  
;; PRIOR FILING DATE: 1998-07-01  
;; PRIOR APPLICATION NUMBER: 60/091519  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091626  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091633  
;; PRIOR FILING DATE: 1998-07-02  
;; PRIOR APPLICATION NUMBER: 60/091978  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 2.5%; Score 7; DB 2; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 LVLLTL 17  
Db 7 LVLLTL 13

RESULT 24  
US-09-990-444-363  
; Sequence 363, Application US/09990444

;; GENERAL INFORMATION:  
;; APPLICANT: Ashkenazi, Avi J.  
;; APPLICANT: Baker, Kevin P.  
;; APPLICANT: Botstein, David  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Fong, Sherman  
;; APPLICANT: Gerber, Hanspeter  
;; APPLICANT: Gerltzen, Mary E.  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Grimaldi, J. Christopher  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Kijavlin, Ivar J.  
;; APPLICANT: Napier, Mary A.  
;; APPLICANT: Pan, James  
;; APPLICANT: Paoni, Nicholas F.  
;; APPLICANT: Roy, Margaret Ann  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: P2730P1C19  
;; CURRENT APPLICATION NUMBER: US/09/990,444  
;; PRIOR FILING DATE: 2001-11-14  
;; PRIOR APPLICATION NUMBER: 60/049787  
;; PRIOR FILING DATE: 1997-06-16  
;; PRIOR APPLICATION NUMBER: 60/062250  
;; PRIOR FILING DATE: 1997-10-17  
;; PRIOR APPLICATION NUMBER: 60/065186  
;; PRIOR FILING DATE: 1997-11-12  
;; PRIOR APPLICATION NUMBER: 60/065311  
;; PRIOR FILING DATE: 1997-11-13

;; PRIOR APPLICATION NUMBER: 60/066770  
;; PRIOR FILING DATE: 1997-11-24  
;; PRIOR APPLICATION NUMBER: 60/075945  
;; PRIOR FILING DATE: 1998-02-25  
;; PRIOR APPLICATION NUMBER: 60/078910  
;; PRIOR FILING DATE: 1998-03-20  
;; PRIOR APPLICATION NUMBER: 60/083322  
;; PRIOR FILING DATE: 1998-04-28  
;; PRIOR APPLICATION NUMBER: 60/084600  
;; PRIOR FILING DATE: 1998-05-07  
;; PRIOR APPLICATION NUMBER: 60/087106  
;; PRIOR FILING DATE: 1998-05-28  
;; PRIOR APPLICATION NUMBER: 60/087607  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/087609  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/087759  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/087827  
;; PRIOR FILING DATE: 1998-06-03  
;; PRIOR APPLICATION NUMBER: 60/088021  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088025  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088026  
;; PRIOR FILING DATE: 1998-06-04  
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Query Match 2.5%; Score 7; DB 2; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 LVLLLTLL 17  
Db 7 LVLLLTLL 13

RESULT 25  
US-09-997-333-363  
; Sequence 363, Application US/09997333  
; Patent No. 6953836  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerltsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavrin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumaas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730PIC27  
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; CURRENT FILING DATE: 2001-11-15  
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; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
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; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
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; APPLICANT: Tumas, Daniel
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; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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PRIOR FILING DATE: 1998-07-09

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; Sequence 363, Application US/09989735  
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; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
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; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
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; FILE REFERENCE: P2730P1C61  
; CURRENT APPLICATION NUMBER: US/09/989,735  
; CURRENT FILING DATE: 2001-11-19  
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;; PRIOR FILING DATE: 1998-07-09

Query Match 2.5%; Score 7; DB 2; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 7 LVLLTL 13

RESULT 28  
US-09-989-726-363  
Sequence 363, Application US/09989726  
Patent No. 7018811  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gottlieb, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavits, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tuma, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P2730P1C60  
CURRENT APPLICATION NUMBER: US/09/989, 726  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
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Query Match 2.5%; Score 7; DB 3; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 7 LVLLTL 13

RESULT 29  
US-09-997-514-363  
; Sequence 363, Application US/09997514  
; Patent No. 7019116

;; GENERAL INFORMATION:  
;; APPLICANT: Ashkenazi, Avi J.  
;; APPLICANT: Baker, Kevin P.  
;; APPLICANT: Botstein, David  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Fong, Sherman  
;; APPLICANT: Gerber, Hanspeter  
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;; APPLICANT: Goddard, Audrey  
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;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tumaas, Daniel  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: P2730P1C46  
;; CURRENT APPLICATION NUMBER: US/09/997,514  
;; CURRENT FILING DATE: 2001-11-15  
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;; PRIOR FILING DATE: 1998-07-09

Query Match 2.5%; Score 7; DB 3; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 LVLLTL 17  
Db 7 LVLLTL 13

RESULT 30  
US-09-989-728-363  
; Sequence 363, Application US/09989728  
; Patent No. 7029873  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman  
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APPLICANT: Goddard, Audrey  
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APPLICANT: Gujavey, Austin L.  
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APPLICANT: Nadier, Mary A.  
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APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Matanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C72  
CURRENT APPLICATION NUMBER: US/09/989,728  
CURRENT FILING DATE: 2001-11-20  
PRIOR APPLICATION NUMBER: 60/049787  
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PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 2.5%; Score 7; DB 3; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 11 LVLLTL 17  
Db 7 LVLLTL 13

RESULT 31  
US-09-997-349-363  
Sequence 363, Application US/09997349  
Patent No. 7034106  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Getlitsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C37  
CURRENT APPLICATION NUMBER: US/09/997,349  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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Query Match 2.5%; Score 7; DB 3; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 7 LVLLTL 13

RESULT 32  
US-09-997-653-363  
Sequence 363, Application US/09997653  
Patent No. 7034122  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
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APPLICANT: Napier, Mary A.  
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APPLICANT: Paoni, Nicholas F.  
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APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC38  
CURRENT APPLICATION NUMBER: US/09/997,653  
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Query Match 2.5%; Score 7; DB 3; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 7 LVLLTL 13

RESULT 33  
US-09-989-293A-363  
; Sequence 363, Application US/09989293A  
; Patent No. 7034136  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Getter, Hanspeter  
; APPLICANT: Gerltsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Guirney, Austin L.  
; APPLICANT: Kijavini, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Collin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730P1C66

;; CURRENT APPLICATION NUMBER: US/09/989, 293A  
;; CURRENT FILING DATE: 2001-11-20  
;; PRIOR APPLICATION NUMBER: 60/049787  
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;; PRIOR APPLICATION NUMBER: 60/075945  
;; PRIOR FILING DATE: 1998-02-25  
;; PRIOR APPLICATION NUMBER: 60/078910  
;; PRIOR FILING DATE: 1998-03-20  
;; PRIOR APPLICATION NUMBER: 60/083322  
;; PRIOR FILING DATE: 1998-04-28  
;; PRIOR APPLICATION NUMBER: 60/084600  
;; PRIOR FILING DATE: 1998-05-07  
;; PRIOR APPLICATION NUMBER: 60/087106  
;; PRIOR FILING DATE: 1998-05-28  
;; PRIOR APPLICATION NUMBER: 60/087607  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/087609  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/087759  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/087827  
;; PRIOR FILING DATE: 1998-06-03  
;; PRIOR APPLICATION NUMBER: 60/088021  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088025  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088026  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088028  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088029  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088030  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088033  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088326  
;; PRIOR FILING DATE: 1998-06-04  
;; PRIOR APPLICATION NUMBER: 60/088167  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088202  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088212  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088217  
;; PRIOR FILING DATE: 1998-06-05  
;; PRIOR APPLICATION NUMBER: 60/088655  
;; PRIOR FILING DATE: 1998-06-09  
;; PRIOR APPLICATION NUMBER: 60/088734  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088738  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088742  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088810  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088824  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088826  
;; PRIOR FILING DATE: 1998-06-10  
;; PRIOR APPLICATION NUMBER: 60/088858  
;; PRIOR FILING DATE: 1998-06-11  
;; PRIOR APPLICATION NUMBER: 60/088861  
;; PRIOR FILING DATE: 1998-06-11  
;; PRIOR APPLICATION NUMBER: 60/088876

PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/089105  
PRIOR FILING DATE: 1998-06-12  
PRIOR APPLICATION NUMBER: 60/089440  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089512  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089514  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089532  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089538  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089598  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089599  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089600  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089907  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089908  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089948  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089952  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/090246  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090252  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090254  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090349  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090439  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090435  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090444  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090445  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090472  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090535  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090540  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090542  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090676  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090678  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090690  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090694  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090695  
PRIOR FILING DATE: 1998-06-25

PRIOR APPLICATION NUMBER: 60/090696  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090862  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 2.5%; Score 7; DB 3; Length 78;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 LVLLTL 17  
Db 7 LVLLTL 13

RESULT 34  
US-09-266-965-2  
Sequence 2, Application US/09266965  
Patent No. 645348  
GENERAL INFORMATION:  
APPLICANT: Sherman, D  
APPLICANT: Mao, Y  
APPLICANT: Varoglu, M  
APPLICANT: He, M  
TITLE OF INVENTION: Mitomycin bio-synthetic gene cluster  
FILE REFERENCE: 600.456051  
CURRENT APPLICATION NUMBER: US/09/266,965  
CURRENT FILING DATE: 1999-03-12  
EARLIER APPLICATION NUMBER: US 08/624,447  
EARLIER FILING DATE: 1996-08-19  
EARLIER APPLICATION NUMBER: PCT/US94/11279  
EARLIER FILING DATE: 1994-10-06  
EARLIER APPLICATION NUMBER: US 08/133,963  
EARLIER FILING DATE: 1993-10-07  
NUMBER OF SEQ ID NOS: 145  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 2  
LENGTH: 114  
TYPE: PRT  
ORGANISM: Streptomyces lavendulae  
US-09-266-965-2

Query Match 2.5%; Score 7; DB 2; Length 114;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 162 RVLRPGG 168  
Db 96 RVLRPGG 102

RESULT 35  
US-09-266-965-1

Sequence 1, Application US/09266965  
Patent No. 6495348  
GENERAL INFORMATION:  
APPLICANT: Sherman, D  
APPLICANT: Mao, Y  
APPLICANT: Varoglu, M  
APPLICANT: He, M  
APPLICANT: Sheldon, P  
TITLE OF INVENTION: Mitomycin biosynthetic gene cluster  
FILE REFERENCE: 600,456US1  
CURRENT APPLICATION NUMBER: US/09/266,965  
CURRENT FILING DATE: 1999-03-12  
EARLIER APPLICATION NUMBER: US 08/624,447  
EARLIER FILING DATE: 1996-08-19  
EARLIER APPLICATION NUMBER: PCT/US94/11279  
EARLIER FILING DATE: 1994-10-06  
EARLIER APPLICATION NUMBER: US 08/133,963  
EARLIER FILING DATE: 1993-10-07  
NUMBER OF SEQ ID NOS: 145  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 1  
LENGTH: 115  
TYPE: PRT  
ORGANISM: Streptomyces lavendulae  
US-09-266-965-1

Query Match 2.5%; Score 7; DB 2; Length 115;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 162 RVLRPGG 168  
Db 97 RVLRPGG 103

RESULT 36  
US-09-266-965-6  
Sequence 6, Application US/09266965  
Patent No. 6495348  
GENERAL INFORMATION:  
APPLICANT: Sherman, D  
APPLICANT: Mao, Y  
APPLICANT: Varoglu, M  
APPLICANT: He, M  
APPLICANT: Sheldon, P  
TITLE OF INVENTION: Mitomycin biosynthetic gene cluster  
FILE REFERENCE: 600,456US1  
CURRENT APPLICATION NUMBER: US/09/266,965  
CURRENT FILING DATE: 1999-03-12  
EARLIER APPLICATION NUMBER: US 08/624,447  
EARLIER FILING DATE: 1996-08-19  
EARLIER APPLICATION NUMBER: PCT/US94/11279  
EARLIER FILING DATE: 1994-10-06  
EARLIER APPLICATION NUMBER: US 08/133,963  
EARLIER FILING DATE: 1993-10-07  
NUMBER OF SEQ ID NOS: 145  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 6  
LENGTH: 115  
TYPE: PRT  
ORGANISM: Amycolatopsis mediterranei  
US-09-266-965-6

Query Match 2.5%; Score 7; DB 2; Length 115;  
Best Local Similarity 100.0%; Pred. No. 79;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 162 RVLRPGG 168  
Db 97 RVLRPGG 103

RESULT 37

US-09-081-320-29  
Sequence 29, Application US/09081320  
Patent No. 6093544  
GENERAL INFORMATION:  
APPLICANT: Gonsalves, Dennis  
APPLICANT: Meng, Baozhong  
TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS  
TITLE OF INVENTION: NUCLEIC ACIDS, PROTEINS, AND THEIR USES  
NUMBER OF SEQUENCES: 54  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
STREET: Clinton Square, P.O. Box 1051  
CITY: Rochester  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 14603  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/081,320  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/047,147  
FILING DATE: 20-MAY-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/069,902  
FILING DATE: 17-DEC-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30,727  
REFERENCE/DOCKET NUMBER: 19603/1722  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1304  
TELEFAX: (716) 263-1600  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 116 amino acids  
TYPE: amino acid  
STRANDEDNESS: linear  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-081-320-29

Query Match 2.5%; Score 7; DB 2; Length 116;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 244 KOSFPSS 250  
Db 62 KOSFPSS 68

RESULT 38  
US-09-574-141A-29  
Sequence 29, Application US/09574141A  
Patent No. 6395490  
GENERAL INFORMATION:  
APPLICANT: Gonsalves, Dennis  
APPLICANT: Meng, Baozhong  
TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS  
TITLE OF INVENTION: NUCLEIC ACIDS, PROTEINS, AND THEIR USES  
FILE REFERENCE: 07678/035005  
CURRENT APPLICATION NUMBER: US/09/574,141A  
CURRENT FILING DATE: 2000-05-18  
PRIOR APPLICATION NUMBER: 60/047,147  
PRIOR FILING DATE: 1997-05-20  
PRIOR APPLICATION NUMBER: 60/069,902  
PRIOR FILING DATE: 1997-12-17  
PRIOR APPLICATION NUMBER: 09/081,320



; PRIOR FILING DATE: 1998-05-19  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 29  
; LENGTH: 116  
; TYPE: PR  
; ORGANISM: Rupestris stem pitting associated virus  
US-09-574-141A-29

Query Match 2.5%; Score 7; DB 2; Length 116;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 244 KOSFPSS 250  
Db 62 KOSFPSS 68

RESULT 39  
US-09-707-780-29  
; Sequence 29, Application US/09707780  
; Patent No. 6399308  
; GENERAL INFORMATION:  
; APPLICANT: Gonsalves, Dennis  
; APPLICANT: Meng, Baozhong  
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS  
; FILE REFERENCE: 07678/035006  
; CURRENT APPLICATION NUMBER: US/09/707,780  
; PRIOR FILING DATE: 2000-11-07  
; PRIOR APPLICATION NUMBER: 09/081,320  
; PRIOR FILING DATE: 1998-05-19  
; PRIOR APPLICATION NUMBER: 60/047,147  
; PRIOR FILING DATE: 1997-05-20  
; PRIOR APPLICATION NUMBER: 60/069,902  
; PRIOR FILING DATE: 1997-12-17  
; NUMBER OF SEQ ID NOS: 54  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 29  
; LENGTH: 116  
; TYPE: PR  
; ORGANISM: Rupestris stem pitting associated virus  
US-09-707-780-29

Query Match 2.5%; Score 7; DB 2; Length 116;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 244 KOSFPSS 250  
Db 62 KOSFPSS 68

RESULT 40  
US-09-568-189A-29  
; Sequence 29, Application US/09568189A  
; Patent No. 6716967  
; GENERAL INFORMATION:  
; APPLICANT: Gonsalves, Dennis  
; APPLICANT: Meng, Baozhong  
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS  
; FILE REFERENCE: 07678/035004  
; CURRENT APPLICATION NUMBER: US/09/568,189A  
; PRIOR FILING DATE: 2000-05-09  
; PRIOR APPLICATION NUMBER: 60/047,147  
; PRIOR FILING DATE: 1997-05-20  
; PRIOR APPLICATION NUMBER: 60/069,902  
; PRIOR FILING DATE: 1997-12-17  
; PRIOR APPLICATION NUMBER: 09/081,320  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 29  
; LENGTH: 116  
; TYPE: PR  
; ORGANISM: Rupestris stem pitting associated virus  
US-09-568-189A-29

Query Match 2.5%; Score 7; DB 2; Length 116;  
Best Local Similarity 100.0%; Pred. No. 80;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 244 KOSFPSS 250  
Db 62 KOSFPSS 68

RESULT 41  
US-09-081-320-7  
; Sequence 7, Application US/09081320  
; Patent No. 6093544  
; GENERAL INFORMATION:  
; APPLICANT: Gonsalves, Dennis  
; APPLICANT: Meng, Baozhong  
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS  
; FILE REFERENCE: 07678/035006  
; NUMBER OF SEQUENCES: 54  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: Clinton Square, P.O. Box 1051  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/081,320  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/047,147  
; FILING DATE: 20-MAY-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/069,902  
; FILING DATE: 17-DEC-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1722  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 117 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-081-320-7

Query Match 2.5%; Score 7; DB 2; Length 117;  
Best Local Similarity 100.0%; Pred. No. 81;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 244 KOSFPSS 250  
Db 63 KOSFPSS 69

RESULT 42

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US-09-574-141A-7
; Sequence 7, Application US/09574141A
; Patent No. 6395490
; GENERAL INFORMATION:
; APPLICANT: Gonsalves, Dennis
; APPLICANT: Meng, Baozhong
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS
; FILE REFERENCE: 07678/035005
; CURRENT APPLICATION NUMBER: US/09/574,141A
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: 60/047,147
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: 60/069,902
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 09/081,320
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Rupestris stem pitting associated virus
US-09-574-141A-7
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```
Query Match      2.5%; Score 7; DB 2; Length 117;
Best Local Similarity 100.0%; Pred. No. 81;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      244 KOSFPSS 250
Db      63 KOSFPSS 69
```

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RESULT 43
US-09-574-141A-74
; Sequence 74, Application US/09574141A
; Patent No. 6395490
; GENERAL INFORMATION:
; APPLICANT: Gonsalves, Dennis
; APPLICANT: Meng, Baozhong
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS
; FILE REFERENCE: 07678/035005
; CURRENT APPLICATION NUMBER: US/09/574,141A
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: 60/047,147
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: 60/069,902
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 09/081,320
; PRIOR FILING DATE: 1998-05-19
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Rupestris stem pitting associated virus
US-09-574-141A-74
```

```
Query Match      2.5%; Score 7; DB 2; Length 117;
Best Local Similarity 100.0%; Pred. No. 81;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      244 KOSFPSS 250
Db      63 KOSFPSS 69
```

```
RESULT 44
US-09-707-780-7
; Sequence 7, Application US/09707780
; Patent No. 6399308
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```
; GENERAL INFORMATION:
; APPLICANT: Gonsalves, Dennis
; APPLICANT: Meng, Baozhong
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS
; FILE REFERENCE: 07678/035006
; CURRENT APPLICATION NUMBER: US/09/707,780
; PRIOR FILING DATE: 2000-11-07
; PRIOR APPLICATION NUMBER: 09/081,320
; PRIOR FILING DATE: 1998-05-19
; PRIOR APPLICATION NUMBER: 60/047,147
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: 60/069,902
; PRIOR FILING DATE: 1997-12-17
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Rupestris stem pitting associated virus
US-09-707-780-7
```

```
Query Match      2.5%; Score 7; DB 2; Length 117;
Best Local Similarity 100.0%; Pred. No. 81;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      244 KOSFPSS 250
Db      63 KOSFPSS 69
```

```
RESULT 45
US-09-568-189A-7
; Sequence 7, Application US/09568189A
; Patent No. 6716967
; GENERAL INFORMATION:
; APPLICANT: Gonsalves, Dennis
; APPLICANT: Meng, Baozhong
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS
; FILE REFERENCE: 07678/035004
; CURRENT APPLICATION NUMBER: US/09/568,189A
; PRIOR FILING DATE: 2000-05-09
; PRIOR APPLICATION NUMBER: 60/047,147
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: 60/069,902
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 09/081,320
; PRIOR FILING DATE: 1998-05-19
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Rupestris stem pitting associated virus
US-09-568-189A-7
```

```
Query Match      2.5%; Score 7; DB 2; Length 117;
Best Local Similarity 100.0%; Pred. No. 81;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      244 KOSFPSS 250
Db      63 KOSFPSS 69
```

```
RESULT 46
US-09-568-189A-74
; Sequence 74, Application US/09568189A
; Patent No. 6716967
; GENERAL INFORMATION:
; APPLICANT: Gonsalves, Dennis
; APPLICANT: Meng, Baozhong
```

```
; TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS
; TITLE OF INVENTION: NUCLEIC ACIDS, PROTEINS, AND THEIR USES
; FILE REFERENCE: 07678/035004
; CURRENT APPLICATION NUMBER: US/09/568,189A
; CURRENT FILING DATE: 2000-05-09
; PRIOR APPLICATION NUMBER: 60/047,147
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: 60/069,902
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: 09/081,320
; PRIOR FILING DATE: 1998-05-19
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Rupestris stem pitting associated virus
US-09-568-189A-74

Query Match
Best Local Similarity 100.0%; Score 7; DB 2; Length 117;
Pred. No. 81;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 244 KOSFSS 250
DB 63 KOSFSS 69

RESULT 47
US-09-902-540-14686
; Sequence 14686, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 14686
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-14686

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Pred. No. 87;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; Sequence 33, Application US/09327750F
; Patent No. 6960440
; GENERAL INFORMATION:
; APPLICANT: Sato, Taka-Aki
; TITLE OF INVENTION: GENE ENCODING NADE, P75NTR-ASSOCIATED CELL DEATH EXECUTOR AND USE THEREOF
; FILE REFERENCE: 0575/59131
; CURRENT APPLICATION NUMBER: US/09/327,750F
; CURRENT FILING DATE: 1999-06-07
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn version 3.1
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; LENGTH: 128
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; ORGANISM: Mouse
US-09-327-750F-33

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; Sequence 44, Application US/09569611C
; Patent No. 6720182
; GENERAL INFORMATION:
; APPLICANT: SAVITZKY et al.
; TITLE OF INVENTION: ALTERNATIVE SPLICING VARIANTS
; FILE REFERENCE: 2786-0151P
; CURRENT APPLICATION NUMBER: US/09/569,611C
; CURRENT FILING DATE: 2000-05-10
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn Ver. 2.0
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; LENGTH: 131
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (7)..(7)
; OTHER INFORMATION: Xaa = any amino acid, unknown or other
US-09-569-611C-44

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Pred. No. 89;
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RESULT 50
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; Sequence 13794, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 13794
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; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-902-540-13794

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Pred. No. 99;
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Db 105 RVLPG3 111

Search completed: July 28, 2006, 13:55:20  
Job time : 59 secs

GenCore version 5.1.9  
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OM protein - protein search, using sw model

Run on: July 28, 2006, 14:05:41 ; Search time 182 Seconds  
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Pred. No. is the number of results predicted by chance to have a  
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and is derived by analysis of the total score distribution.

SUMMARIES

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GenCore version 5.1.9  
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| 68  | 7 | 2.5 | 357 | 7 | US-11-330-403-14245   | Sequence 14245, A  |
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| 70  | 7 | 2.5 | 359 | 7 | US-11-056-355B-9444   | Sequence 9444, AP  |
| 71  | 7 | 2.5 | 359 | 7 | US-11-330-403-18965   | Sequence 18965, A  |
| 72  | 7 | 2.5 | 365 | 7 | US-11-056-355B-72998  | Sequence 72998, A  |
| 73  | 7 | 2.5 | 367 | 7 | US-11-056-355B-98759  | Sequence 98759, A  |
| 74  | 7 | 2.5 | 367 | 7 | US-11-056-355B-109998 | Sequence 109998, A |
| 75  | 7 | 2.5 | 374 | 6 | US-10-953-349-11134   | Sequence 11134, A  |
| 76  | 7 | 2.5 | 374 | 7 | US-11-056-355B-46554  | Sequence 46554, A  |
| 77  | 7 | 2.5 | 387 | 7 | US-11-056-355B-13326  | Sequence 13326, A  |
| 78  | 7 | 2.5 | 389 | 7 | US-11-056-355B-9443   | Sequence 9443, AP  |
| 79  | 7 | 2.5 | 398 | 7 | US-11-056-355B-45502  | Sequence 45502, A  |
| 80  | 7 | 2.5 | 398 | 7 | US-11-056-355B-46120  | Sequence 46120, A  |
| 81  | 7 | 2.5 | 398 | 7 | US-11-056-355B-48255  | Sequence 48255, A  |
| 82  | 7 | 2.5 | 398 | 7 | US-11-056-355B-96376  | Sequence 96376, A  |
| 83  | 7 | 2.5 | 400 | 6 | US-10-449-902-49390   | Sequence 49390, A  |
| 84  | 7 | 2.5 | 406 | 6 | US-10-449-902-44546   | Sequence 44546, A  |
| 85  | 7 | 2.5 | 415 | 6 | US-10-953-349-9307    | Sequence 9307, AP  |
| 86  | 7 | 2.5 | 415 | 6 | US-11-056-355B-35815  | Sequence 35815, A  |
| 87  | 7 | 2.5 | 416 | 6 | US-10-449-902-48924   | Sequence 48924, A  |
| 88  | 7 | 2.5 | 418 | 6 | US-10-953-349-9306    | Sequence 9306, AP  |
| 89  | 7 | 2.5 | 418 | 7 | US-11-056-355B-36814  | Sequence 36814, AP |
| 90  | 7 | 2.5 | 419 | 6 | US-10-449-902-42339   | Sequence 42339, A  |
| 91  | 7 | 2.5 | 423 | 7 | US-11-283-329-96      | Sequence 96, APPL  |
| 92  | 7 | 2.5 | 423 | 7 | US-11-056-355B-13662  | Sequence 13662, A  |
| 93  | 7 | 2.5 | 428 | 6 | US-10-953-349-9305    | Sequence 9305, AP  |
| 94  | 7 | 2.5 | 428 | 7 | US-11-056-355B-36813  | Sequence 36813, A  |
| 95  | 7 | 2.5 | 431 | 6 | US-10-953-349-11133   | Sequence 11133, A  |
| 96  | 7 | 2.5 | 431 | 7 | US-11-056-355B-46553  | Sequence 46553, A  |
| 97  | 7 | 2.5 | 436 | 7 | US-11-056-355B-7512   | Sequence 7512, AP  |
| 98  | 7 | 2.5 | 439 | 7 | US-11-056-355B-45501  | Sequence 45501, A  |
| 99  | 7 | 2.5 | 439 | 7 | US-11-056-355B-46119  | Sequence 46119, A  |
| 100 | 7 | 2.5 | 439 | 7 | US-11-056-355B-48254  | Sequence 48254, A  |
| 101 | 7 | 2.5 | 446 | 7 | US-11-056-355B-96375  | Sequence 96375, A  |

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| 102 | 7 | 2.5 | 449 | 7 | US-11-056-355B-39155  | Sequence 39155, A  | 175 | 6 | 2.2 | 36  | 7 | US-11-301-744-382    | Sequence 382, App  |
| 103 | 7 | 2.5 | 449 | 7 | US-11-056-355B-71958  | Sequence 71958, A  | 176 | 6 | 2.2 | 48  | 7 | US-11-106-014-63     | Sequence 613, App1 |
| 104 | 7 | 2.5 | 449 | 7 | US-11-056-355B-99605  | Sequence 99605, A  | 177 | 6 | 2.2 | 44  | 7 | US-11-056-355B-11137 | Sequence 11137, A  |
| 105 | 7 | 2.5 | 449 | 7 | US-11-056-355B-110844 | Sequence 110844, A | 178 | 6 | 2.2 | 51  | 6 | US-10-953-349-12025  | Sequence 12025, A  |
| 106 | 7 | 2.5 | 478 | 6 | US-10-953-349-111132  | Sequence 111132, A | 179 | 6 | 2.2 | 55  | 6 | US-10-953-349-12024  | Sequence 12024, A  |
| 107 | 7 | 2.5 | 478 | 6 | US-11-056-355B-46552  | Sequence 46552, A  | 180 | 6 | 2.2 | 63  | 6 | US-10-953-349-3892   | Sequence 3892, A   |
| 108 | 7 | 2.5 | 480 | 6 | US-10-449-902-54517   | Sequence 54517, A  | 181 | 6 | 2.2 | 72  | 7 | US-11-121-154-108    | Sequence 108, App  |
| 109 | 7 | 2.5 | 480 | 6 | US-10-449-902-56278   | Sequence 56278, A  | 182 | 6 | 2.2 | 73  | 6 | US-10-953-349-32843  | Sequence 32843, A  |
| 110 | 7 | 2.5 | 492 | 7 | US-11-056-355B-13661  | Sequence 13661, A  | 183 | 6 | 2.2 | 78  | 6 | US-10-953-349-26808  | Sequence 26808, A  |
| 111 | 7 | 2.5 | 497 | 7 | US-11-056-355B-99604  | Sequence 99604, A  | 184 | 6 | 2.2 | 78  | 6 | US-10-953-349-34566  | Sequence 34566, A  |
| 112 | 7 | 2.5 | 497 | 7 | US-11-056-355B-110843 | Sequence 110843, A | 185 | 6 | 2.2 | 78  | 7 | US-11-056-355B-11624 | Sequence 11624, A  |
| 113 | 7 | 2.5 | 498 | 6 | US-10-449-902-56253   | Sequence 56253, A  | 186 | 6 | 2.2 | 79  | 7 | US-11-056-355B-4486  | Sequence 4486, A   |
| 114 | 7 | 2.5 | 500 | 6 | US-10-526-940-6       | Sequence 6, App11  | 187 | 6 | 2.2 | 79  | 7 | US-11-056-355B-79492 | Sequence 79492, A  |
| 115 | 7 | 2.5 | 500 | 7 | US-11-283-329-98      | Sequence 98, App1  | 188 | 6 | 2.2 | 79  | 7 | US-11-056-355B-98079 | Sequence 98079, A  |
| 116 | 7 | 2.5 | 501 | 7 | US-11-330-403-18753   | Sequence 18753, A  | 189 | 6 | 2.2 | 79  | 7 | US-11-056-355B-98079 | Sequence 109318, A |
| 117 | 7 | 2.5 | 502 | 7 | US-11-056-355B-47081  | Sequence 47081, A  | 190 | 6 | 2.2 | 80  | 6 | US-10-953-349-32842  | Sequence 32842, A  |
| 118 | 7 | 2.5 | 502 | 7 | US-11-056-355B-48950  | Sequence 48950, A  | 191 | 6 | 2.2 | 85  | 6 | US-10-953-349-32842  | Sequence 26807, A  |
| 119 | 7 | 2.5 | 506 | 7 | US-11-056-355B-71957  | Sequence 71957, A  | 192 | 6 | 2.2 | 86  | 6 | US-10-953-349-19459  | Sequence 19459, A  |
| 120 | 7 | 2.5 | 510 | 6 | US-10-953-349-92137   | Sequence 92137, A  | 193 | 6 | 2.2 | 86  | 6 | US-10-953-349-19459  | Sequence 59649, A  |
| 121 | 7 | 2.5 | 510 | 7 | US-11-056-355B-59483  | Sequence 59483, A  | 194 | 6 | 2.2 | 87  | 7 | US-11-106-014-30     | Sequence 30, App1  |
| 122 | 7 | 2.5 | 511 | 7 | US-11-056-355B-47080  | Sequence 47080, A  | 195 | 6 | 2.2 | 94  | 6 | US-10-953-349-15559  | Sequence 15560, A  |
| 123 | 7 | 2.5 | 511 | 7 | US-11-056-355B-48949  | Sequence 48949, A  | 196 | 6 | 2.2 | 95  | 6 | US-10-953-349-15559  | Sequence 34421, A  |
| 124 | 7 | 2.5 | 512 | 6 | US-10-449-902-45493   | Sequence 45493, A  | 197 | 6 | 2.2 | 99  | 6 | US-11-225-804-5      | Sequence 34421, A  |
| 125 | 7 | 2.5 | 514 | 7 | US-11-056-355B-81966  | Sequence 81966, A  | 198 | 6 | 2.2 | 100 | 7 | US-11-225-804-5      | Sequence 37473, A  |
| 126 | 7 | 2.5 | 515 | 7 | US-11-056-355B-81965  | Sequence 81965, A  | 199 | 6 | 2.2 | 101 | 6 | US-10-449-902-37473  | Sequence 253, App  |
| 127 | 7 | 2.5 | 517 | 7 | US-11-056-355B-45235  | Sequence 45235, A  | 200 | 6 | 2.2 | 108 | 7 | US-11-197-712-253    | Sequence 34180, A  |
| 128 | 7 | 2.5 | 519 | 6 | US-10-526-940-9       | Sequence 9, App11  | 201 | 6 | 2.2 | 110 | 6 | US-10-449-902-34180  | Sequence 35745, A  |
| 129 | 7 | 2.5 | 525 | 7 | US-11-056-355B-38005  | Sequence 38005, A  | 202 | 6 | 2.2 | 113 | 6 | US-10-449-902-35745  | Sequence 12211, A  |
| 130 | 7 | 2.5 | 525 | 7 | US-11-056-355B-47714  | Sequence 47714, A  | 203 | 6 | 2.2 | 116 | 6 | US-10-953-349-12211  | Sequence 21353, A  |
| 131 | 7 | 2.5 | 542 | 6 | US-10-449-902-56129   | Sequence 56129, A  | 204 | 6 | 2.2 | 116 | 7 | US-11-056-355B-21353 | Sequence 21353, A  |
| 132 | 7 | 2.5 | 561 | 6 | US-10-953-349-92136   | Sequence 92136, A  | 205 | 6 | 2.2 | 116 | 7 | US-11-056-355B-49952 | Sequence 49952, A  |
| 133 | 7 | 2.5 | 561 | 6 | US-11-056-355B-59482  | Sequence 59482, A  | 206 | 6 | 2.2 | 116 | 7 | US-11-376-694-38     | Sequence 38, App1  |
| 134 | 7 | 2.5 | 574 | 7 | US-11-056-355B-45234  | Sequence 45234, A  | 207 | 6 | 2.2 | 119 | 6 | US-10-953-349-15558  | Sequence 15558, A  |
| 135 | 7 | 2.5 | 587 | 7 | US-11-056-355B-38004  | Sequence 38004, A  | 208 | 6 | 2.2 | 119 | 7 | US-11-197-712-469    | Sequence 469, App  |
| 136 | 7 | 2.5 | 587 | 7 | US-11-056-355B-47713  | Sequence 47713, A  | 209 | 6 | 2.2 | 124 | 6 | US-10-953-349-25911  | Sequence 25911, A  |
| 137 | 7 | 2.5 | 594 | 7 | US-11-056-355B-39661  | Sequence 39661, A  | 210 | 6 | 2.2 | 120 | 6 | US-10-449-902-46111  | Sequence 46111, A  |
| 138 | 7 | 2.5 | 594 | 7 | US-11-056-355B-102423 | Sequence 102423, A | 211 | 6 | 2.2 | 120 | 6 | US-10-449-902-52539  | Sequence 52539, A  |
| 139 | 7 | 2.5 | 594 | 7 | US-11-056-355B-113662 | Sequence 113662, A | 212 | 6 | 2.2 | 127 | 7 | US-11-056-355B-62681 | Sequence 62681, A  |
| 140 | 7 | 2.5 | 605 | 6 | US-10-449-902-50641   | Sequence 50641, A  | 213 | 6 | 2.2 | 123 | 7 | US-11-056-355B-777   | Sequence 777, App  |
| 141 | 7 | 2.5 | 608 | 7 | US-11-056-355B-47079  | Sequence 47079, A  | 214 | 6 | 2.2 | 124 | 6 | US-10-953-349-34565  | Sequence 34565, A  |
| 142 | 7 | 2.5 | 610 | 6 | US-10-449-902-3050    | Sequence 47050, A  | 215 | 6 | 2.2 | 124 | 7 | US-11-293-697-4584   | Sequence 4584, App |
| 143 | 7 | 2.5 | 610 | 7 | US-11-121-154-22      | Sequence 22, App1  | 216 | 6 | 2.2 | 124 | 7 | US-11-056-355B-11623 | Sequence 11623, A  |
| 144 | 7 | 2.5 | 610 | 7 | US-11-056-355B-13660  | Sequence 13660, A  | 217 | 6 | 2.2 | 125 | 6 | US-10-449-902-52334  | Sequence 52334, A  |
| 145 | 7 | 2.5 | 611 | 7 | US-11-056-355B-48948  | Sequence 48948, A  | 218 | 6 | 2.2 | 129 | 7 | US-11-056-355B-776   | Sequence 776, App  |
| 146 | 7 | 2.5 | 613 | 6 | US-10-953-349-92135   | Sequence 92135, A  | 219 | 6 | 2.2 | 131 | 6 | US-10-953-349-27526  | Sequence 27526, A  |
| 147 | 7 | 2.5 | 613 | 7 | US-11-056-355B-59481  | Sequence 59481, A  | 220 | 6 | 2.2 | 132 | 6 | US-10-449-902-29685  | Sequence 29685, A  |
| 148 | 7 | 2.5 | 621 | 6 | US-10-449-902-55178   | Sequence 55178, A  | 221 | 6 | 2.2 | 132 | 7 | US-11-056-355B-775   | Sequence 775, App  |
| 149 | 7 | 2.5 | 621 | 6 | US-10-374-7804-2284   | Sequence 2284, App | 222 | 6 | 2.2 | 135 | 6 | US-10-953-349-25375  | Sequence 25375, A  |
| 150 | 7 | 2.5 | 621 | 7 | US-11-056-355B-45233  | Sequence 45233, A  | 223 | 6 | 2.2 | 135 | 6 | US-10-953-349-25375  | Sequence 25375, A  |
| 151 | 7 | 2.5 | 622 | 7 | US-11-056-355B-39660  | Sequence 39660, A  | 224 | 6 | 2.2 | 136 | 6 | US-10-953-349-34564  | Sequence 34564, A  |
| 152 | 7 | 2.5 | 622 | 7 | US-11-056-355B-102422 | Sequence 102422, A | 225 | 6 | 2.2 | 136 | 7 | US-11-056-355B-11622 | Sequence 11622, A  |
| 153 | 7 | 2.5 | 622 | 7 | US-11-056-355B-113661 | Sequence 113661, A | 226 | 6 | 2.2 | 137 | 6 | US-10-953-349-28374  | Sequence 28374, A  |
| 154 | 7 | 2.5 | 623 | 7 | US-11-056-355B-39659  | Sequence 39659, A  | 227 | 6 | 2.2 | 138 | 6 | US-10-449-902-38108  | Sequence 38108, A  |
| 155 | 7 | 2.5 | 623 | 7 | US-11-056-355B-102421 | Sequence 102421, A | 228 | 6 | 2.2 | 141 | 7 | US-11-056-355B-951   | Sequence 951, App  |
| 156 | 7 | 2.5 | 623 | 7 | US-11-056-355B-113660 | Sequence 113660, A | 229 | 6 | 2.2 | 143 | 6 | US-10-449-902-46288  | Sequence 46288, A  |
| 157 | 7 | 2.5 | 631 | 6 | US-10-374-7804-2432   | Sequence 2432, App | 230 | 6 | 2.2 | 144 | 6 | US-10-953-349-31764  | Sequence 31764, A  |
| 158 | 7 | 2.5 | 631 | 7 | US-11-056-355B-96374  | Sequence 96374, A  | 231 | 6 | 2.2 | 144 | 6 | US-10-449-902-47123  | Sequence 47123, A  |
| 159 | 7 | 2.5 | 633 | 6 | US-10-374-7804-2740   | Sequence 2740, App | 232 | 6 | 2.2 | 145 | 6 | US-10-953-349-27525  | Sequence 27525, A  |
| 160 | 7 | 2.5 | 633 | 7 | US-11-056-355B-45500  | Sequence 45500, A  | 233 | 6 | 2.2 | 146 | 6 | US-10-449-902-49602  | Sequence 49602, A  |
| 161 | 7 | 2.5 | 633 | 7 | US-11-056-355B-48118  | Sequence 48118, A  | 234 | 6 | 2.2 | 150 | 6 | US-10-953-349-33589  | Sequence 33589, A  |
| 162 | 7 | 2.5 | 633 | 7 | US-11-056-355B-48253  | Sequence 48253, A  | 235 | 6 | 2.2 | 150 | 6 | US-10-953-349-33589  | Sequence 40367, A  |
| 163 | 7 | 2.5 | 633 | 7 | US-11-056-355B-81964  | Sequence 81964, A  | 236 | 6 | 2.2 | 151 | 6 | US-10-449-902-40367  | Sequence 102, App  |
| 164 | 7 | 2.5 | 639 | 7 | US-11-056-355B-80063  | Sequence 80063, A  | 237 | 6 | 2.2 | 152 | 7 | US-10-511-937-2442   | Sequence 2442, App |
| 165 | 7 | 2.5 | 639 | 7 | US-11-056-355B-47712  | Sequence 47712, A  | 238 | 6 | 2.2 | 154 | 6 | US-10-449-902-29926  | Sequence 29926, A  |
| 166 | 7 | 2.5 | 639 | 7 | US-10-449-902-43209   | Sequence 43209, A  | 239 | 6 | 2.2 | 155 | 7 | US-11-056-355B-8534  | Sequence 8534, App |
| 167 | 7 | 2.5 | 651 | 6 | US-10-449-902-47432   | Sequence 47432, A  | 240 | 6 | 2.2 | 157 | 7 | US-11-056-355B-24028 | Sequence 24028, A  |
| 168 | 7 | 2.5 | 659 | 7 | US-11-056-355B-83927  | Sequence 83927, A  | 241 | 6 | 2.2 | 158 | 6 | US-10-953-349-9661   | Sequence 73947, A  |
| 169 | 7 | 2.5 | 674 | 6 | US-10-449-902-47948   | Sequence 47948, A  | 242 | 6 | 2.2 | 158 | 6 | US-10-953-349-9661   | Sequence 9661, App |
| 170 | 7 | 2.5 | 706 | 6 | US-11-330-403-1331    | Sequence 1331, App | 243 | 6 | 2.2 | 158 | 7 | US-11-056-355B-21174 | Sequence 21174, A  |
| 171 | 6 | 2.2 | 25  | 6 | US-10-905-5274-92     | Sequence 92, App1  | 244 | 6 | 2.2 | 168 | 7 | US-11-056-355B-29856 | Sequence 29856, A  |
| 172 | 6 | 2.2 | 36  | 7 | US-11-055-098-300     | Sequence 300, App  | 245 | 6 | 2.2 | 168 | 7 | US-11-056-355B-33446 | Sequence 33446, A  |
| 173 | 6 | 2.2 | 36  | 7 | US-11-055-098-382     | Sequence 382, App  | 246 | 6 | 2.2 | 168 | 7 | US-11-056-355B-18865 | Sequence 18865, A  |
| 174 | 6 | 2.2 | 36  | 7 | US-11-301-744-300     | Sequence 300, App  | 247 | 6 | 2.2 | 164 | 6 | US-10-449-902-39994  | Sequence 39994, A  |



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| 248 | 6 | 2.2 | 165 | 6 | US-10-953-349-33588  | Sequence 33588, A | 321  | 6 | 2.2 | 220 | 7 | US-11-118-112A-82    | Sequence 82, Appl   |
| 249 | 6 | 2.2 | 167 | 7 | US-11-056-355B-44848 | Sequence 44848, A | 322  | 6 | 2.2 | 220 | 7 | US-11-118-112A-84    | Sequence 84, Appl   |
| 250 | 6 | 2.2 | 168 | 6 | US-10-953-349-9660   | Sequence 9660, Ap | 323  | 6 | 2.2 | 220 | 7 | US-11-118-112A-86    | Sequence 86, Appl   |
| 251 | 6 | 2.2 | 168 | 7 | US-11-197-712-426    | Sequence 426, App | 324  | 6 | 2.2 | 220 | 7 | US-11-118-112A-92    | Sequence 92, Appl   |
| 252 | 6 | 2.2 | 168 | 7 | US-11-056-355B-21173 | Sequence 21173, A | 325- | 6 | 2.2 | 220 | 7 | US-11-118-112A-94    | Sequence 94, Appl   |
| 253 | 6 | 2.2 | 168 | 7 | US-11-056-355B-29855 | Sequence 29855, A | 326  | 6 | 2.2 | 220 | 7 | US-11-118-112A-100   | Sequence 100, Appl  |
| 254 | 6 | 2.2 | 168 | 7 | US-11-056-355B-33445 | Sequence 33445, A | 327  | 6 | 2.2 | 220 | 7 | US-11-118-112A-102   | Sequence 102, Appl  |
| 255 | 6 | 2.2 | 168 | 7 | US-11-056-355B-61891 | Sequence 61891, A | 328  | 6 | 2.2 | 220 | 7 | US-11-118-112A-112   | Sequence 112, Appl  |
| 256 | 6 | 2.2 | 169 | 7 | US-11-118-112A-60    | Sequence 60, Appl | 329  | 6 | 2.2 | 220 | 7 | US-11-118-112A-120   | Sequence 120, Appl  |
| 257 | 6 | 2.2 | 169 | 7 | US-11-056-355B-61890 | Sequence 61890, A | 330  | 6 | 2.2 | 220 | 7 | US-11-118-112A-126   | Sequence 126, Appl  |
| 258 | 6 | 2.2 | 172 | 7 | US-11-056-355B-61889 | Sequence 61889, A | 331  | 6 | 2.2 | 220 | 7 | US-11-118-112A-132   | Sequence 132, Appl  |
| 259 | 6 | 2.2 | 177 | 6 | US-10-953-349-3613   | Sequence 3613, Ap | 332  | 6 | 2.2 | 220 | 7 | US-11-118-112A-136   | Sequence 136, Appl  |
| 260 | 6 | 2.2 | 182 | 7 | US-11-056-355B-15969 | Sequence 15969, A | 333  | 6 | 2.2 | 220 | 7 | US-11-118-112A-138   | Sequence 138, Appl  |
| 261 | 6 | 2.2 | 183 | 7 | US-11-056-355B-63218 | Sequence 63218, A | 334  | 6 | 2.2 | 220 | 7 | US-11-118-112A-140   | Sequence 140, Appl  |
| 262 | 6 | 2.2 | 185 | 7 | US-11-118-112A-200   | Sequence 200, App | 335  | 6 | 2.2 | 220 | 7 | US-11-118-112A-142   | Sequence 142, Appl  |
| 263 | 6 | 2.2 | 189 | 6 | US-10-953-349-31763  | Sequence 31763, A | 336  | 6 | 2.2 | 220 | 7 | US-11-118-112A-143   | Sequence 143, Appl  |
| 264 | 6 | 2.2 | 190 | 6 | US-10-953-349-34701  | Sequence 34701, A | 337  | 6 | 2.2 | 220 | 7 | US-11-118-112A-144   | Sequence 144, Appl  |
| 265 | 6 | 2.2 | 190 | 7 | US-11-056-355B-35166 | Sequence 35166, A | 338  | 6 | 2.2 | 220 | 7 | US-11-118-112A-150   | Sequence 150, Appl  |
| 266 | 6 | 2.2 | 192 | 6 | US-10-953-349-31762  | Sequence 31762, A | 339  | 6 | 2.2 | 220 | 7 | US-11-118-112A-152   | Sequence 152, Appl  |
| 267 | 6 | 2.2 | 194 | 6 | US-11-056-355B-15968 | Sequence 15968, A | 340  | 6 | 2.2 | 220 | 7 | US-11-118-112A-154   | Sequence 154, Appl  |
| 268 | 6 | 2.2 | 196 | 6 | US-10-953-349-6598   | Sequence 6598, Ap | 341  | 6 | 2.2 | 220 | 7 | US-11-118-112A-160   | Sequence 160, Appl  |
| 269 | 6 | 2.2 | 197 | 6 | US-10-953-349-16235  | Sequence 16235, A | 342  | 6 | 2.2 | 220 | 7 | US-11-118-112A-166   | Sequence 166, Appl  |
| 270 | 6 | 2.2 | 199 | 6 | US-10-449-902-47187  | Sequence 47187, A | 343  | 6 | 2.2 | 220 | 7 | US-11-118-112A-168   | Sequence 168, Appl  |
| 271 | 6 | 2.2 | 204 | 7 | US-11-056-355B-26487 | Sequence 26487, A | 344  | 6 | 2.2 | 220 | 7 | US-11-118-112A-219   | Sequence 219, Appl  |
| 272 | 6 | 2.2 | 204 | 7 | US-11-056-355B-82001 | Sequence 82001, A | 345  | 6 | 2.2 | 220 | 7 | US-11-330-403-12000  | Sequence 12000, A   |
| 273 | 6 | 2.2 | 205 | 6 | US-10-953-349-34700  | Sequence 34700, A | 346  | 6 | 2.2 | 221 | 7 | US-11-118-112A-96    | Sequence 96, Appl   |
| 274 | 6 | 2.2 | 210 | 7 | US-11-338-471-6      | Sequence 6, Appl1 | 347  | 6 | 2.2 | 221 | 7 | US-11-118-112A-98    | Sequence 98, Appl   |
| 275 | 6 | 2.2 | 210 | 7 | US-11-056-355B-54508 | Sequence 54508, A | 348  | 6 | 2.2 | 221 | 7 | US-11-118-112A-104   | Sequence 104, Appl  |
| 276 | 6 | 2.2 | 212 | 6 | US-10-449-902-43764  | Sequence 43764, A | 349  | 6 | 2.2 | 221 | 7 | US-11-118-112A-110   | Sequence 110, Appl  |
| 277 | 6 | 2.2 | 212 | 7 | US-11-056-355B-54507 | Sequence 54507, A | 350  | 6 | 2.2 | 221 | 7 | US-11-118-112A-116   | Sequence 116, Appl  |
| 278 | 6 | 2.2 | 213 | 6 | US-10-953-349-11572  | Sequence 11572, A | 351  | 6 | 2.2 | 221 | 7 | US-11-118-112A-122   | Sequence 122, Appl  |
| 279 | 6 | 2.2 | 214 | 6 | US-10-953-349-27062  | Sequence 27062, A | 352  | 6 | 2.2 | 221 | 7 | US-11-118-112A-124   | Sequence 124, Appl  |
| 280 | 6 | 2.2 | 214 | 6 | US-10-449-902-3756   | Sequence 37562, A | 353  | 6 | 2.2 | 221 | 7 | US-11-118-112A-128   | Sequence 128, Appl  |
| 281 | 6 | 2.2 | 214 | 7 | US-11-056-355B-62309 | Sequence 62309, A | 354  | 6 | 2.2 | 221 | 7 | US-11-118-112A-130   | Sequence 130, Appl  |
| 282 | 6 | 2.2 | 215 | 6 | US-10-953-349-15713  | Sequence 15713, A | 355  | 6 | 2.2 | 221 | 7 | US-11-118-112A-146   | Sequence 146, Appl  |
| 283 | 6 | 2.2 | 215 | 6 | US-11-056-355B-26486 | Sequence 26486, A | 356  | 6 | 2.2 | 221 | 7 | US-11-118-112A-158   | Sequence 158, Appl  |
| 284 | 6 | 2.2 | 216 | 7 | US-11-056-355B-82000 | Sequence 82000, A | 357  | 6 | 2.2 | 221 | 7 | US-11-118-112A-164   | Sequence 164, Appl  |
| 285 | 6 | 2.2 | 216 | 7 | US-10-449-902-5138   | Sequence 51382, A | 358  | 6 | 2.2 | 221 | 7 | US-11-118-112A-216   | Sequence 216, Appl  |
| 286 | 6 | 2.2 | 217 | 6 | US-11-056-355B-6351  | Sequence 6351, Ap | 359  | 6 | 2.2 | 221 | 7 | US-11-118-112A-217   | Sequence 217, Appl  |
| 287 | 6 | 2.2 | 217 | 6 | US-10-471-571A-1918  | Sequence 1918, Ap | 360  | 6 | 2.2 | 221 | 7 | US-11-118-112A-190   | Sequence 190, Appl  |
| 288 | 6 | 2.2 | 218 | 6 | US-10-471-571A-1918  | Sequence 114, App | 361  | 6 | 2.2 | 223 | 7 | US-11-118-112A-192   | Sequence 192, Appl  |
| 289 | 6 | 2.2 | 219 | 7 | US-11-118-112A-114   | Sequence 114, App | 362  | 6 | 2.2 | 223 | 7 | US-11-118-112A-194   | Sequence 194, Appl  |
| 290 | 6 | 2.2 | 220 | 6 | US-10-540-092-10     | Sequence 10, Appl | 363  | 6 | 2.2 | 223 | 7 | US-11-118-112A-196   | Sequence 196, Appl  |
| 291 | 6 | 2.2 | 220 | 7 | US-11-118-112A-20    | Sequence 20, Appl | 364  | 6 | 2.2 | 223 | 7 | US-11-118-112A-198   | Sequence 198, Appl  |
| 292 | 6 | 2.2 | 220 | 7 | US-11-118-112A-22    | Sequence 22, Appl | 365  | 6 | 2.2 | 223 | 7 | US-10-449-902-47980  | Sequence 47980, A   |
| 293 | 6 | 2.2 | 220 | 7 | US-11-118-112A-24    | Sequence 24, Appl | 366  | 6 | 2.2 | 224 | 6 | US-11-056-355B-28097 | Sequence 28097, A   |
| 294 | 6 | 2.2 | 220 | 7 | US-11-118-112A-26    | Sequence 26, Appl | 367  | 6 | 2.2 | 224 | 6 | US-11-056-355B-31687 | Sequence 31687, A   |
| 295 | 6 | 2.2 | 220 | 7 | US-11-118-112A-28    | Sequence 28, Appl | 368  | 6 | 2.2 | 224 | 6 | US-10-449-902-37848  | Sequence 37848, A   |
| 296 | 6 | 2.2 | 220 | 7 | US-11-118-112A-30    | Sequence 30, Appl | 369  | 6 | 2.2 | 225 | 6 | US-10-449-902-52815  | Sequence 52815, A   |
| 297 | 6 | 2.2 | 220 | 7 | US-11-118-112A-32    | Sequence 32, Appl | 370  | 6 | 2.2 | 225 | 6 | US-10-471-571A-1952  | Sequence 1952, A    |
| 298 | 6 | 2.2 | 220 | 7 | US-11-118-112A-34    | Sequence 34, Appl | 371  | 6 | 2.2 | 226 | 6 | US-10-449-902-45788  | Sequence 45788, A   |
| 299 | 6 | 2.2 | 220 | 7 | US-11-118-112A-36    | Sequence 36, Appl | 372  | 6 | 2.2 | 226 | 6 | US-11-118-112A-218   | Sequence 218, Appl  |
| 300 | 6 | 2.2 | 220 | 7 | US-11-118-112A-38    | Sequence 38, Appl | 373  | 6 | 2.2 | 226 | 7 | US-10-449-902-48041  | Sequence 48041, A   |
| 301 | 6 | 2.2 | 220 | 7 | US-11-118-112A-40    | Sequence 40, Appl | 374  | 6 | 2.2 | 227 | 6 | US-10-449-902-48041  | Sequence 48041, A   |
| 302 | 6 | 2.2 | 220 | 7 | US-11-118-112A-42    | Sequence 42, Appl | 375  | 6 | 2.2 | 228 | 7 | US-11-056-355B-76483 | Sequence 76483, A   |
| 303 | 6 | 2.2 | 220 | 7 | US-11-118-112A-44    | Sequence 44, Appl | 377  | 6 | 2.2 | 229 | 7 | US-11-101-316-48     | Sequence 48, Appl   |
| 304 | 6 | 2.2 | 220 | 7 | US-11-118-112A-46    | Sequence 46, Appl | 378  | 6 | 2.2 | 229 | 7 | US-11-376-673-48     | Sequence 48, Appl   |
| 305 | 6 | 2.2 | 220 | 7 | US-11-118-112A-48    | Sequence 48, Appl | 379  | 6 | 2.2 | 231 | 7 | US-11-118-112A-181   | Sequence 181, Appl  |
| 306 | 6 | 2.2 | 220 | 7 | US-11-118-112A-50    | Sequence 50, Appl | 380  | 6 | 2.2 | 231 | 7 | US-11-056-355B-56129 | Sequence 56129, A   |
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| 309 | 6 | 2.2 | 220 | 7 | US-11-118-112A-56    | Sequence 56, Appl | 383  | 6 | 2.2 | 234 | 7 | US-11-330-403-13637  | Sequence 13637, A   |
| 310 | 6 | 2.2 | 220 | 7 | US-11-118-112A-58    | Sequence 58, Appl | 384  | 6 | 2.2 | 235 | 7 | US-11-118-112A-182   | Sequence 182, App   |
| 311 | 6 | 2.2 | 220 | 7 | US-11-118-112A-62    | Sequence 62, Appl | 385  | 6 | 2.2 | 235 | 7 | US-11-118-112A-225   | Sequence 225, Appl  |
| 312 | 6 | 2.2 | 220 | 7 | US-11-118-112A-64    | Sequence 64, Appl | 386  | 6 | 2.2 | 240 | 6 | US-10-953-349-27524  | Sequence 27524, A   |
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| 398 | 6 | 2.2 | 251 | 6 | US-10-953-349-434     | Sequence 434, App  | 471 | 6 | 2.2 | 301 | 6 | US-10-449-902-42902   | Sequence 42902, A  |
| 399 | 6 | 2.2 | 251 | 6 | US-10-953-349-2279    | Sequence 2279, Ap  | 472 | 6 | 2.2 | 301 | 7 | US-11-056-355B-10962  | Sequence 10962, A  |
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| 401 | 6 | 2.2 | 251 | 7 | US-11-056-355B-25730  | Sequence 25730, A  | 474 | 6 | 2.2 | 304 | 6 | US-10-953-349-6569    | Sequence 6569, Ap  |
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| 413 | 6 | 2.2 | 254 | 7 | US-11-118-112A-90     | Sequence 90, Appl  | 486 | 6 | 2.2 | 309 | 7 | US-11-056-355B-38255  | Sequence 38255, A  |
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| 417 | 6 | 2.2 | 256 | 7 | US-11-056-355B-75013  | Sequence 75013, A  | 490 | 6 | 2.2 | 312 | 7 | US-11-056-355B-18518  | Sequence 18518, A  |
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| 420 | 6 | 2.2 | 257 | 6 | US-11-056-355B-35165  | Sequence 35165, A  | 493 | 6 | 2.2 | 312 | 7 | US-11-056-355B-85771  | Sequence 85771, A  |
| 421 | 6 | 2.2 | 257 | 7 | US-11-056-355B-62308  | Sequence 62308, A  | 494 | 6 | 2.2 | 312 | 7 | US-11-056-355B-90634  | Sequence 90634, A  |
| 422 | 6 | 2.2 | 257 | 7 | US-11-330-403-13202   | Sequence 13202, A  | 495 | 6 | 2.2 | 312 | 7 | US-11-056-355B-94390  | Sequence 94390, A  |
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| 426 | 6 | 2.2 | 264 | 7 | US-11-056-355B-1067   | Sequence 1067, Ap  | 499 | 6 | 2.2 | 312 | 7 | US-11-056-355B-119731 | Sequence 119731, A |
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| 559 | 6 | 2.2 | 340 | 7 | US-11-174-307B-2864   | Sequence 2864, App  |
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| 575 | 6 | 2.2 | 346 | 6 | US-10-449-902-52832   | Sequence 52832, A   |
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| 579 | 6 | 2.2 | 350 | 6 | US-10-511-937-2609    | Sequence 2609, App  |
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| 591 | 6 | 2.2 | 360 | 6 | US-10-953-349-6568    | Sequence 6568, App  |
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| 596 | 6 | 2.2 | 361 | 7 | US-11-056-355B-2337   | Sequence 2337, App  |
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| 602 | 6 | 2.2 | 363 | 7 | US-11-056-355B-105123 | Sequence 105123, A  |
| 603 | 6 | 2.2 | 363 | 7 | US-11-056-355B-116362 | Sequence 116362, A  |
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| 632 | 6 | 2.2 | 380 | 7 | US-11-330-403-4446    | Sequence 4446, App  |
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| 635 | 6 | 2.2 | 387 | 7 | US-11-174-307B-5520   | Sequence 5520, App  |
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| 637 | 6 | 2.2 | 388 | 6 | US-10-374-780A-1813   | Sequence 1813, App  |
| 638 | 6 | 2.2 | 388 | 7 | US-11-330-363-27      | Sequence 27, Appl1  |
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| 648 | 6 | 2.2 | 392 | 7 | US-11-056-355B-100781 | Sequence 100781, A  |
| 649 | 6 | 2.2 | 392 | 7 | US-11-056-355B-112020 | Sequence 112020, A  |
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| 652 | 6 | 2.2 | 394 | 6 | US-10-953-349-38936   | Sequence 38936, A   |
| 653 | 6 | 2.2 | 394 | 7 | US-11-056-355B-65149  | Sequence 65149, A   |
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| 657 | 6 | 2.2 | 397 | 7 | US-11-056-355B-39582  | Sequence 39582, A   |
| 658 | 6 | 2.2 | 398 | 7 | US-11-056-355B-16805  | Sequence 16805, App |
| 659 | 6 | 2.2 | 399 | 6 | US-10-953-349-13510   | Sequence 13510, A   |
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| 663 | 6 | 2.2 | 407 | 6 | US-10-449-902-46075   | Sequence 46075, A   |
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| 666 | 6 | 2.2 | 410 | 7 | US-11-056-355B-52803  | Sequence 52803, A   |
| 667 | 6 | 2.2 | 411 | 7 | US-11-056-355B-66333  | Sequence 66333, A   |
| 668 | 6 | 2.2 | 411 | 7 | US-11-330-403-3019    | Sequence 3019, App  |
| 669 | 6 | 2.2 | 412 | 6 | US-10-374-780A-2794   | Sequence 2794, App  |
| 670 | 6 | 2.2 | 412 | 6 | US-11-056-355B-43104  | Sequence 43104, A   |
| 671 | 6 | 2.2 | 413 | 7 | US-11-056-355B-73636  | Sequence 73636, A   |
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| 674 | 6 | 2.2 | 416 | 7 | US-11-293-697-4389    | Sequence 4389, App  |
| 675 | 6 | 2.2 | 417 | 7 | US-11-056-355B-25250  | Sequence 25250, A   |
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| 677 | 6 | 2.2 | 417 | 7 | US-11-056-355B-112019 | Sequence 112019, A  |
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| 686 | 6 | 2.2 | 421 | 7 | US-11-056-355B-2336   | Sequence 2336, App  |
| 687 | 6 | 2.2 | 422 | 6 | US-10-449-902-37495   | Sequence 37495, A   |

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| 691 | 6 | 2.2 | 433 | 6 | US-10-953-349-4590    | Sequence 4590, App  | 764 | 6 | 2.2 | 501 | 7 | US-11-330-403-402     | Sequence 402, App   |
| 692 | 6 | 2.2 | 433 | 6 | US-10-953-349-25007   | Sequence 25007, App | 765 | 6 | 2.2 | 504 | 6 | US-10-532-868-9       | Sequence 9, App1    |
| 693 | 6 | 2.2 | 433 | 7 | US-11-056-355B-6804   | Sequence 6804, App  | 766 | 6 | 2.2 | 504 | 7 | US-11-056-355B-42339  | Sequence 42339, A   |
| 694 | 6 | 2.2 | 433 | 7 | US-11-056-355B-25004  | Sequence 25004, A   | 767 | 6 | 2.2 | 506 | 6 | US-11-056-349-32484   | Sequence 32484, A   |
| 695 | 6 | 2.2 | 433 | 7 | US-11-056-355B-25629  | Sequence 25629, A   | 768 | 6 | 2.2 | 506 | 7 | US-11-056-355B-62603  | Sequence 62603, A   |
| 696 | 6 | 2.2 | 433 | 7 | US-11-056-355B-60084  | Sequence 60084, A   | 769 | 6 | 2.2 | 506 | 7 | US-11-056-355B-91114  | Sequence 91114, A   |
| 697 | 6 | 2.2 | 433 | 6 | US-10-449-902-29842   | Sequence 29842, A   | 770 | 6 | 2.2 | 507 | 7 | US-11-056-355B-50484  | Sequence 50484, A   |
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| 700 | 6 | 2.2 | 436 | 7 | US-11-056-355B-60083  | Sequence 60083, A   | 773 | 6 | 2.2 | 511 | 6 | US-10-953-349-32483   | Sequence 32483, A   |
| 701 | 6 | 2.2 | 437 | 6 | US-10-953-349-11537   | Sequence 11537, A   | 774 | 6 | 2.2 | 511 | 6 | US-11-056-355B-62602  | Sequence 62602, A   |
| 702 | 6 | 2.2 | 437 | 7 | US-11-174-3078-2376   | Sequence 2376, App  | 775 | 6 | 2.2 | 512 | 6 | US-10-449-902-50821   | Sequence 50821, A   |
| 703 | 6 | 2.2 | 437 | 7 | US-11-330-403-18615   | Sequence 18615, A   | 776 | 6 | 2.2 | 513 | 6 | US-10-953-349-21284   | Sequence 21284, A   |
| 704 | 6 | 2.2 | 439 | 7 | US-11-297-134-22      | Sequence 22, App1   | 777 | 6 | 2.2 | 513 | 6 | US-11-056-355B-54768  | Sequence 54768, A   |
| 705 | 6 | 2.2 | 439 | 7 | US-11-056-355B-73635  | Sequence 73635, A   | 778 | 6 | 2.2 | 513 | 7 | US-11-056-355B-44978  | Sequence 44978, A   |
| 706 | 6 | 2.2 | 440 | 6 | US-10-953-349-1386    | Sequence 1386, App  | 779 | 6 | 2.2 | 516 | 7 | US-11-056-355B-44978  | Sequence 44978, A   |
| 707 | 6 | 2.2 | 442 | 7 | US-11-225-804-4       | Sequence 4, App1    | 780 | 6 | 2.2 | 520 | 7 | US-11-056-355B-1560   | Sequence 1560, App  |
| 708 | 6 | 2.2 | 443 | 6 | US-10-953-349-36037   | Sequence 36037, A   | 781 | 6 | 2.2 | 521 | 6 | US-10-953-349-19679   | Sequence 19679, A   |
| 709 | 6 | 2.2 | 443 | 6 | US-11-056-355B-10254  | Sequence 10254, A   | 782 | 6 | 2.2 | 525 | 6 | US-10-449-902-43532   | Sequence 43532, A   |
| 710 | 6 | 2.2 | 445 | 6 | US-10-449-902-49182   | Sequence 49182, A   | 783 | 6 | 2.2 | 528 | 6 | US-10-449-902-48837   | Sequence 48837, A   |
| 711 | 6 | 2.2 | 445 | 7 | US-11-056-355B-6803   | Sequence 6803, App  | 784 | 6 | 2.2 | 530 | 7 | US-11-056-355B-50483  | Sequence 50483, A   |
| 712 | 6 | 2.2 | 446 | 6 | US-10-713-648A-57     | Sequence 57, App1   | 785 | 6 | 2.2 | 531 | 6 | US-10-953-349-20042   | Sequence 20042, A   |
| 713 | 6 | 2.2 | 447 | 6 | US-10-449-902-39244   | Sequence 39244, A   | 786 | 6 | 2.2 | 534 | 7 | US-11-056-355B-44977  | Sequence 44977, A   |
| 714 | 6 | 2.2 | 448 | 6 | US-10-953-349-1385    | Sequence 1385, App  | 787 | 6 | 2.2 | 537 | 6 | US-10-953-349-32070   | Sequence 32070, A   |
| 715 | 6 | 2.2 | 449 | 7 | US-11-056-355B-10961  | Sequence 10961, A   | 788 | 6 | 2.2 | 537 | 7 | US-11-056-355B-66332  | Sequence 66332, A   |
| 716 | 6 | 2.2 | 449 | 7 | US-11-056-355B-65147  | Sequence 65147, A   | 789 | 6 | 2.2 | 539 | 7 | US-11-056-355B-45490  | Sequence 45490, A   |
| 717 | 6 | 2.2 | 450 | 7 | US-11-056-355B-42400  | Sequence 42400, A   | 790 | 6 | 2.2 | 539 | 7 | US-11-056-355B-50868  | Sequence 50868, A   |
| 718 | 6 | 2.2 | 451 | 7 | US-11-056-355B-45674  | Sequence 45674, A   | 791 | 6 | 2.2 | 540 | 7 | US-11-330-403-16078   | Sequence 16078, A   |
| 719 | 6 | 2.2 | 451 | 7 | US-11-056-355B-105478 | Sequence 105478, A  | 792 | 6 | 2.2 | 544 | 6 | US-10-449-902-56641   | Sequence 56641, A   |
| 720 | 6 | 2.2 | 454 | 7 | US-11-056-355B-116717 | Sequence 116717, A  | 793 | 6 | 2.2 | 544 | 7 | US-11-056-355B-91707  | Sequence 91707, A   |
| 721 | 6 | 2.2 | 454 | 7 | US-11-330-403-16662   | Sequence 16662, A   | 794 | 6 | 2.2 | 544 | 6 | US-11-056-355B-95463  | Sequence 95463, A   |
| 722 | 6 | 2.2 | 457 | 6 | US-10-449-902-31359   | Sequence 31359, A   | 795 | 6 | 2.2 | 545 | 6 | US-10-449-902-45700   | Sequence 45700, A   |
| 723 | 6 | 2.2 | 457 | 6 | US-10-449-902-30709   | Sequence 30709, A   | 796 | 6 | 2.2 | 545 | 6 | US-10-449-902-54783   | Sequence 54783, A   |
| 724 | 6 | 2.2 | 457 | 6 | US-11-056-355B-50485  | Sequence 50485, A   | 797 | 6 | 2.2 | 546 | 6 | US-10-828-564-11      | Sequence 11, App1   |
| 725 | 6 | 2.2 | 458 | 7 | US-11-330-403-16735   | Sequence 16735, A   | 798 | 6 | 2.2 | 548 | 7 | US-11-330-403-12485   | Sequence 12485, A   |
| 726 | 6 | 2.2 | 459 | 7 | US-11-330-403-12407   | Sequence 12407, A   | 799 | 6 | 2.2 | 552 | 7 | US-11-233-089-40      | Sequence 40, App1   |
| 727 | 6 | 2.2 | 460 | 7 | US-11-056-355B-17075  | Sequence 17075, A   | 800 | 6 | 2.2 | 553 | 6 | US-10-953-349-40238   | Sequence 40238, A   |
| 728 | 6 | 2.2 | 461 | 6 | US-10-505-828-382     | Sequence 282, App   | 801 | 6 | 2.2 | 553 | 7 | US-11-056-355B-79761  | Sequence 79761, A   |
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| 731 | 6 | 2.2 | 462 | 7 | US-11-056-355B-67037  | Sequence 67037, A   | 804 | 6 | 2.2 | 560 | 6 | US-10-953-349-33923   | Sequence 3923, App  |
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| 733 | 6 | 2.2 | 466 | 6 | US-10-953-349-12186   | Sequence 12186, A   | 806 | 6 | 2.2 | 564 | 6 | US-10-449-902-45918   | Sequence 45918, A   |
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| 735 | 6 | 2.2 | 467 | 6 | US-10-449-902-55368   | Sequence 55368, A   | 808 | 6 | 2.2 | 569 | 7 | US-11-056-355B-45673  | Sequence 45673, A   |
| 736 | 6 | 2.2 | 471 | 7 | US-11-056-355B-16196  | Sequence 16196, A   | 809 | 6 | 2.2 | 569 | 7 | US-11-056-355B-87468  | Sequence 87468, A   |
| 737 | 6 | 2.2 | 472 | 7 | US-11-056-355B-44876  | Sequence 44876, A   | 810 | 6 | 2.2 | 572 | 7 | US-11-056-355B-79760  | Sequence 79760, A   |
| 738 | 6 | 2.2 | 475 | 6 | US-10-449-902-47845   | Sequence 47845, A   | 811 | 6 | 2.2 | 573 | 7 | US-11-330-403-3412    | Sequence 3412, App  |
| 739 | 6 | 2.2 | 477 | 6 | US-10-953-349-19680   | Sequence 19680, A   | 813 | 6 | 2.2 | 578 | 6 | US-10-449-902-35348   | Sequence 35348, A   |
| 740 | 6 | 2.2 | 478 | 6 | US-11-056-355B-80132  | Sequence 80132, A   | 814 | 6 | 2.2 | 578 | 6 | US-10-449-902-54497   | Sequence 54497, A   |
| 741 | 6 | 2.2 | 480 | 6 | US-10-449-902-26654   | Sequence 26654, A   | 815 | 6 | 2.2 | 578 | 6 | US-10-449-902-55745   | Sequence 55745, A   |
| 742 | 6 | 2.2 | 481 | 7 | US-11-056-355B-13293  | Sequence 13293, A   | 816 | 6 | 2.2 | 580 | 7 | US-11-056-355B-45672  | Sequence 45672, A   |
| 743 | 6 | 2.2 | 484 | 6 | US-10-449-902-4153    | Sequence 4153, A    | 817 | 6 | 2.2 | 582 | 6 | US-10-449-902-42309   | Sequence 42309, A   |
| 744 | 6 | 2.2 | 484 | 6 | US-10-449-902-45190   | Sequence 45190, A   | 818 | 6 | 2.2 | 582 | 6 | US-10-449-902-44638   | Sequence 44638, A   |
| 745 | 6 | 2.2 | 484 | 6 | US-11-330-403-11933   | Sequence 11933, A   | 819 | 6 | 2.2 | 582 | 7 | US-11-174-3078-54566  | Sequence 54566, App |
| 746 | 6 | 2.2 | 485 | 6 | US-10-953-349-16036   | Sequence 16036, A   | 820 | 6 | 2.2 | 585 | 6 | US-10-449-902-37983   | Sequence 37983, A   |
| 747 | 6 | 2.2 | 485 | 6 | US-11-056-355B-10253  | Sequence 10253, A   | 821 | 6 | 2.2 | 585 | 6 | US-10-953-349-32069   | Sequence 32069, A   |
| 748 | 6 | 2.2 | 485 | 7 | US-11-056-355B-10253  | Sequence 10253, A   | 822 | 6 | 2.2 | 585 | 6 | US-11-056-355B-66331  | Sequence 66331, A   |
| 749 | 6 | 2.2 | 486 | 7 | US-11-330-403-269     | Sequence 269, App   | 823 | 6 | 2.2 | 597 | 7 | US-11-311-778-16      | Sequence 16, App1   |
| 750 | 6 | 2.2 | 487 | 6 | US-10-449-902-36803   | Sequence 36803, A   | 824 | 6 | 2.2 | 611 | 6 | US-10-953-349-3922    | Sequence 3922, App  |
| 751 | 6 | 2.2 | 490 | 7 | US-11-293-697-3621    | Sequence 3621, App  | 825 | 6 | 2.2 | 619 | 7 | US-11-312-958-46      | Sequence 46, App1   |
| 752 | 6 | 2.2 | 491 | 7 | US-11-056-355B-45491  | Sequence 45491, A   | 826 | 6 | 2.2 | 621 | 7 | US-11-293-697-4148    | Sequence 4148, App  |
| 753 | 6 | 2.2 | 491 | 7 | US-11-056-355B-50869  | Sequence 50869, A   | 827 | 6 | 2.2 | 624 | 6 | US-10-953-349-3921    | Sequence 3921, App  |
| 754 | 6 | 2.2 | 493 | 6 | US-10-449-902-45138   | Sequence 45138, A   | 828 | 6 | 2.2 | 626 | 7 | US-11-056-355B-116815 | Sequence 116815, A  |
| 755 | 6 | 2.2 | 493 | 6 | US-11-293-697-4124    | Sequence 4124, App  | 829 | 6 | 2.2 | 626 | 7 | US-11-056-355B-118055 | Sequence 118055, A  |
| 756 | 6 | 2.2 | 498 | 6 | US-10-449-902-36716   | Sequence 36716, A   | 830 | 6 | 2.2 | 630 | 7 | US-11-056-355B-118054 | Sequence 118054, A  |
| 757 | 6 | 2.2 | 498 | 6 | US-10-449-902-48560   | Sequence 48560, A   | 831 | 6 | 2.2 | 630 | 7 | US-11-056-355B-106814 | Sequence 106814, A  |
| 758 | 6 | 2.2 | 498 | 6 | US-10-449-902-55170   | Sequence 55170, A   | 832 | 6 | 2.2 | 639 | 7 | US-11-056-355B-118053 | Sequence 118053, A  |
| 759 | 6 | 2.2 | 499 | 6 | US-10-953-349-21285   | Sequence 21285, A   | 833 | 6 | 2.2 | 639 | 7 | US-11-056-355B-79759  | Sequence 79759, A   |
| 760 | 6 | 2.2 | 499 | 7 | US-11-056-355B-54769  | Sequence 54769, A   | 834 | 6 | 2.2 | 640 | 7 | US-11-056-355B-79759  | Sequence 79759, A   |

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|-----|---|-----|-----|---|-----------------------|--------------------|-----|---|-----|------|---|----------------------|--------------------|
| 835 | 6 | 2.2 | 641 | 7 | US-11-056-355B-91706  | Sequence 91706, A  | 908 | 6 | 2.2 | 867  | 6 | US-10-449-902-53235  | Sequence 53235, A  |
| 836 | 6 | 2.2 | 641 | 7 | US-11-056-355B-95462  | Sequence 95462, A  | 909 | 6 | 2.2 | 869  | 6 | US-10-449-902-45663  | Sequence 45663, A  |
| 837 | 6 | 2.2 | 644 | 7 | US-11-174-307B-4730   | Sequence 4730, Ap  | 910 | 6 | 2.2 | 868  | 7 | US-11-174-307B-852   | Sequence 852, App  |
| 838 | 6 | 2.2 | 644 | 6 | US-10-953-349-19678   | Sequence 19678, A  | 911 | 6 | 2.2 | 884  | 7 | US-11-174-307B-1892  | Sequence 1892, App |
| 839 | 6 | 2.2 | 646 | 6 | US-10-449-902-5749    | Sequence 5749, A   | 912 | 6 | 2.2 | 907  | 7 | US-11-174-307B-1940  | Sequence 1940, Ap  |
| 840 | 6 | 2.2 | 648 | 6 | US-10-953-349-16895   | Sequence 16895, A  | 913 | 6 | 2.2 | 928  | 7 | US-11-056-355B-87467 | Sequence 87467, A  |
| 841 | 6 | 2.2 | 648 | 7 | US-11-056-355B-59503  | Sequence 59503, A  | 914 | 6 | 2.2 | 937  | 7 | US-11-330-403-11508  | Sequence 11508, A  |
| 842 | 6 | 2.2 | 651 | 7 | US-11-289-102-230     | Sequence 230, App  | 915 | 6 | 2.2 | 943  | 7 | US-11-056-355B-81299 | Sequence 81299, A  |
| 843 | 6 | 2.2 | 656 | 6 | US-10-449-902-38110   | Sequence 38110, A  | 916 | 6 | 2.2 | 960  | 7 | US-11-330-403-6805   | Sequence 6805, Ap  |
| 844 | 6 | 2.2 | 659 | 6 | US-10-449-902-55998   | Sequence 55998, A  | 917 | 6 | 2.2 | 951  | 6 | US-10-199-229-13     | Sequence 9, App11  |
| 845 | 6 | 2.2 | 660 | 6 | US-10-449-902-44635   | Sequence 44635, A  | 918 | 6 | 2.2 | 951  | 6 | US-10-199-229-13     | Sequence 13, App11 |
| 846 | 6 | 2.2 | 660 | 6 | US-10-449-902-48054   | Sequence 48054, A  | 919 | 6 | 2.2 | 952  | 6 | US-11-056-355B-87466 | Sequence 87466, A  |
| 847 | 6 | 2.2 | 660 | 6 | US-10-449-902-53574   | Sequence 53574, A  | 920 | 6 | 2.2 | 954  | 6 | US-10-449-902-55960  | Sequence 55960, A  |
| 848 | 6 | 2.2 | 661 | 6 | US-10-449-902-33093   | Sequence 33093, A  | 921 | 6 | 2.2 | 957  | 7 | US-11-174-307B-1976  | Sequence 1976, Ap  |
| 849 | 6 | 2.2 | 661 | 6 | US-10-449-902-51012   | Sequence 51012, A  | 922 | 6 | 2.2 | 958  | 6 | US-10-449-902-42257  | Sequence 42257, A  |
| 850 | 6 | 2.2 | 667 | 6 | US-10-449-902-42881   | Sequence 42881, A  | 923 | 6 | 2.2 | 972  | 6 | US-10-449-902-41420  | Sequence 41420, A  |
| 851 | 6 | 2.2 | 668 | 7 | US-11-056-355B-91705  | Sequence 91705, A  | 924 | 6 | 2.2 | 978  | 6 | US-10-953-349-9199   | Sequence 9199, Ap  |
| 852 | 6 | 2.2 | 668 | 7 | US-11-056-355B-95461  | Sequence 95461, A  | 925 | 6 | 2.2 | 983  | 6 | US-11-174-307B-2434  | Sequence 2434, Ap  |
| 853 | 6 | 2.2 | 671 | 6 | US-10-953-349-44214   | Sequence 44214, A  | 926 | 6 | 2.2 | 985  | 7 | US-11-174-307B-5470  | Sequence 5470, Ap  |
| 854 | 6 | 2.2 | 671 | 6 | US-10-449-902-44715   | Sequence 44715, A  | 927 | 6 | 2.2 | 987  | 7 | US-11-330-403-13361  | Sequence 13361, A  |
| 855 | 6 | 2.2 | 671 | 7 | US-11-056-355B-18275  | Sequence 18275, A  | 928 | 6 | 2.2 | 995  | 7 | US-11-238-031-14     | Sequence 14, App1  |
| 856 | 6 | 2.2 | 672 | 7 | US-11-330-403-5139    | Sequence 5139, Ap  | 929 | 6 | 2.2 | 995  | 7 | US-11-174-307B-1572  | Sequence 1572, Ap  |
| 857 | 6 | 2.2 | 672 | 7 | US-11-330-403-5139    | Sequence 5139, Ap  | 930 | 6 | 2.2 | 996  | 7 | US-11-293-716-60     | Sequence 60, App1  |
| 858 | 6 | 2.2 | 675 | 6 | US-10-449-902-52984   | Sequence 52984, A  | 931 | 6 | 2.2 | 998  | 7 | US-11-330-403-13357  | Sequence 13357, A  |
| 859 | 6 | 2.2 | 691 | 7 | US-11-056-355B-108059 | Sequence 108059, A | 932 | 6 | 2.2 | 998  | 7 | US-11-330-403-13360  | Sequence 13360, A  |
| 860 | 6 | 2.2 | 698 | 7 | US-10-953-349-4543    | Sequence 4543, Ap  | 933 | 6 | 2.2 | 999  | 7 | US-11-174-307B-1422  | Sequence 1422, Ap  |
| 861 | 6 | 2.2 | 699 | 6 | US-10-953-349-16894   | Sequence 16894, A  | 934 | 6 | 2.2 | 1000 | 6 | US-10-449-902-43547  | Sequence 17817, A  |
| 862 | 6 | 2.2 | 699 | 6 | US-10-953-349-16894   | Sequence 16894, A  | 935 | 6 | 2.2 | 1000 | 6 | US-10-449-902-43547  | Sequence 43247, A  |
| 863 | 6 | 2.2 | 699 | 7 | US-11-056-355B-59502  | Sequence 59502, A  | 936 | 6 | 2.2 | 1001 | 6 | US-10-449-902-41315  | Sequence 41315, A  |
| 864 | 6 | 2.2 | 700 | 6 | US-10-505-928-351     | Sequence 351, App  | 937 | 6 | 2.2 | 1002 | 6 | US-10-449-902-45681  | Sequence 45681, A  |
| 865 | 6 | 2.2 | 700 | 6 | US-10-953-349-16893   | Sequence 16893, A  | 938 | 6 | 2.2 | 1017 | 7 | US-11-174-307B-3140  | Sequence 3140, Ap  |
| 866 | 6 | 2.2 | 700 | 6 | US-11-056-355B-59501  | Sequence 59501, A  | 939 | 6 | 2.2 | 1022 | 7 | US-11-174-307B-4296  | Sequence 4296, Ap  |
| 867 | 6 | 2.2 | 701 | 6 | US-10-449-902-55705   | Sequence 55705, A  | 940 | 6 | 2.2 | 1027 | 7 | US-11-174-307B-4296  | Sequence 4296, Ap  |
| 868 | 6 | 2.2 | 702 | 7 | US-11-056-355B-95973  | Sequence 95973, A  | 941 | 6 | 2.2 | 1029 | 7 | US-11-174-307B-1824  | Sequence 1824, Ap  |
| 869 | 6 | 2.2 | 703 | 7 | US-11-174-307B-270    | Sequence 270, App  | 942 | 6 | 2.2 | 1029 | 7 | US-11-056-355B-81298 | Sequence 81298, A  |
| 870 | 6 | 2.2 | 703 | 7 | US-11-056-355B-18274  | Sequence 18274, A  | 943 | 6 | 2.2 | 1033 | 6 | US-10-449-902-42950  | Sequence 42950, A  |
| 871 | 6 | 2.2 | 707 | 6 | US-10-449-902-53248   | Sequence 53248, A  | 944 | 6 | 2.2 | 1037 | 6 | US-11-174-307B-1268  | Sequence 1268, Ap  |
| 872 | 6 | 2.2 | 708 | 6 | US-10-449-902-51793   | Sequence 51793, A  | 945 | 6 | 2.2 | 1049 | 6 | US-10-449-902-50776  | Sequence 50776, A  |
| 873 | 6 | 2.2 | 709 | 6 | US-10-953-349-4542    | Sequence 4542, Ap  | 946 | 6 | 2.2 | 1055 | 6 | US-10-449-902-45573  | Sequence 45573, A  |
| 874 | 6 | 2.2 | 712 | 7 | US-11-105-233-162     | Sequence 162, App  | 947 | 6 | 2.2 | 1055 | 7 | US-11-174-307B-2854  | Sequence 2854, Ap  |
| 875 | 6 | 2.2 | 713 | 6 | US-10-449-902-47007   | Sequence 47007, A  | 948 | 6 | 2.2 | 1058 | 7 | US-11-174-307B-4280  | Sequence 4280, App |
| 876 | 6 | 2.2 | 714 | 6 | US-10-449-902-45765   | Sequence 45765, A  | 949 | 6 | 2.2 | 1058 | 7 | US-11-174-307B-1586  | Sequence 1586, Ap  |
| 877 | 6 | 2.2 | 714 | 6 | US-10-449-902-44951   | Sequence 44951, A  | 950 | 6 | 2.2 | 1059 | 7 | US-11-174-307B-1950  | Sequence 1950, Ap  |
| 878 | 6 | 2.2 | 715 | 6 | US-10-471-571A-2272   | Sequence 2272, Ap  | 951 | 6 | 2.2 | 1060 | 7 | US-11-174-307B-2216  | Sequence 2216, Ap  |
| 879 | 6 | 2.2 | 715 | 7 | US-11-056-355B-95739  | Sequence 95739, A  | 952 | 6 | 2.2 | 1061 | 7 | US-11-174-307B-1894  | Sequence 1894, Ap  |
| 880 | 6 | 2.2 | 719 | 6 | US-10-449-902-66440   | Sequence 66440, A  | 953 | 6 | 2.2 | 1069 | 7 | US-11-174-307B-1228  | Sequence 1228, Ap  |
| 881 | 6 | 2.2 | 723 | 6 | US-10-449-902-36818   | Sequence 36818, A  | 954 | 6 | 2.2 | 1070 | 6 | US-10-449-902-39911  | Sequence 39911, A  |
| 882 | 6 | 2.2 | 725 | 6 | US-10-953-349-4541    | Sequence 4541, Ap  | 955 | 6 | 2.2 | 1081 | 7 | US-11-174-307B-308   | Sequence 308, App  |
| 883 | 6 | 2.2 | 728 | 6 | US-10-449-902-50992   | Sequence 50992, A  | 956 | 6 | 2.2 | 1082 | 6 | US-10-449-902-47085  | Sequence 47085, A  |
| 884 | 6 | 2.2 | 731 | 7 | US-11-056-355B-108058 | Sequence 108058, A | 957 | 6 | 2.2 | 1086 | 7 | US-11-174-307B-600   | Sequence 600, App  |
| 885 | 6 | 2.2 | 731 | 7 | US-11-056-355B-118297 | Sequence 118297, A | 958 | 6 | 2.2 | 1094 | 7 | US-11-174-307B-438   | Sequence 438, App  |
| 886 | 6 | 2.2 | 733 | 7 | US-11-174-307B-810    | Sequence 810, App  | 959 | 6 | 2.2 | 1094 | 7 | US-11-174-307B-1356  | Sequence 1356, App |
| 887 | 6 | 2.2 | 738 | 7 | US-11-056-355B-108057 | Sequence 108057, A | 960 | 6 | 2.2 | 1108 | 7 | US-11-174-307B-1122  | Sequence 1122, Ap  |
| 888 | 6 | 2.2 | 738 | 7 | US-11-056-355B-119296 | Sequence 119296, A | 961 | 6 | 2.2 | 1109 | 7 | US-11-174-307B-332   | Sequence 332, App  |
| 889 | 6 | 2.2 | 742 | 7 | US-11-056-355B-95972  | Sequence 95972, A  | 962 | 6 | 2.2 | 1140 | 7 | US-11-174-307B-114   | Sequence 114, App  |
| 890 | 6 | 2.2 | 743 | 6 | US-10-449-902-37717   | Sequence 37717, A  | 963 | 6 | 2.2 | 1147 | 7 | US-11-174-307B-2286  | Sequence 2286, Ap  |
| 891 | 6 | 2.2 | 744 | 7 | US-11-330-403-7082    | Sequence 7082, Ap  | 964 | 6 | 2.2 | 1148 | 7 | US-11-247-437-6      | Sequence 6, App11  |
| 892 | 6 | 2.2 | 749 | 7 | US-11-056-355B-95971  | Sequence 95971, A  | 965 | 6 | 2.2 | 1153 | 7 | US-11-174-307B-500   | Sequence 500, App  |
| 893 | 6 | 2.2 | 750 | 6 | US-10-511-937-2413    | Sequence 2413, Ap  | 966 | 6 | 2.2 | 1160 | 7 | US-11-174-307B-2370  | Sequence 2370, Ap  |
| 894 | 6 | 2.2 | 754 | 6 | US-10-953-349-9200    | Sequence 9200, Ap  | 967 | 6 | 2.2 | 1161 | 7 | US-11-174-307B-1150  | Sequence 1150, Ap  |
| 895 | 6 | 2.2 | 757 | 6 | US-10-449-902-55633   | Sequence 55633, A  | 968 | 6 | 2.2 | 1162 | 7 | US-11-174-307B-2244  | Sequence 2244, Ap  |
| 896 | 6 | 2.2 | 760 | 6 | US-10-953-349-31503   | Sequence 31503, A  | 969 | 6 | 2.2 | 1164 | 7 | US-11-174-307B-1208  | Sequence 1208, Ap  |
| 897 | 6 | 2.2 | 767 | 6 | US-10-449-902-56749   | Sequence 56749, A  | 970 | 6 | 2.2 | 1168 | 7 | US-11-174-307B-1208  | Sequence 1208, Ap  |
| 898 | 6 | 2.2 | 768 | 6 | US-10-449-902-54720   | Sequence 54720, A  | 971 | 6 | 2.2 | 1168 | 7 | US-11-174-307B-3426  | Sequence 3426, Ap  |
| 899 | 6 | 2.2 | 788 | 6 | US-10-449-902-54720   | Sequence 54720, A  | 972 | 6 | 2.2 | 1173 | 6 | US-10-953-349-9198   | Sequence 9198, App |
| 900 | 6 | 2.2 | 795 | 6 | US-11-238-031-142     | Sequence 142, App  | 973 | 6 | 2.2 | 1174 | 6 | US-11-174-307B-666   | Sequence 666, App  |
| 901 | 6 | 2.2 | 801 | 6 | US-10-539-228-666     | Sequence 666, App  | 974 | 6 | 2.2 | 1179 | 7 | US-11-174-307B-508   | Sequence 508, App  |
| 902 | 6 | 2.2 | 817 | 6 | US-10-449-902-50277   | Sequence 50277, A  | 975 | 6 | 2.2 | 1187 | 7 | US-11-174-307B-1142  | Sequence 1142, App |
| 903 | 6 | 2.2 | 829 | 7 | US-11-274-634-16      | Sequence 16, App1  | 976 | 6 | 2.2 | 1197 | 7 | US-11-174-307B-1382  | Sequence 1382, Ap  |
| 904 | 6 | 2.2 | 831 | 7 | US-11-174-307B-1974   | Sequence 1974, Ap  | 977 | 6 | 2.2 | 1217 | 7 | US-11-105-233-186    | Sequence 186, App  |
| 905 | 6 | 2.2 | 832 | 6 | US-10-505-928-491     | Sequence 491, App  | 978 | 6 | 2.2 | 1217 | 7 | US-11-174-307B-4324  | Sequence 4324, Ap  |
| 906 | 6 | 2.2 | 832 | 6 | US-11-174-307B-1324   | Sequence 1324, Ap  | 979 | 6 | 2.2 | 1219 | 7 | US-11-174-307B-1462  | Sequence 1462, Ap  |
| 907 | 6 | 2.2 | 838 | 6 | US-11-174-307B-808    | Sequence 808, App  | 980 | 6 | 2.2 | 1220 | 7 | US-11-273-537-34     | Sequence 34, App1  |
|     |   |     | 848 | 6 | US-10-449-902-36522   | Sequence 36522, A  | 981 | 6 | 2.2 |      |   |                      |                    |

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| 982  | 6 | 2.2 | 1220 | 7 | US-11-174-307B-2404 | Sequence 2404, Ap  | 1055 | 6 | 2.2 | 1439 | 7 | US-11-174-307B-604  | Sequence 604, App  |
| 983  | 6 | 2.2 | 1221 | 7 | US-11-174-307B-362  | Sequence 362, Ap   | 1056 | 6 | 2.2 | 1439 | 7 | US-11-174-307B-3364 | Sequence 3364, App |
| 984  | 6 | 2.2 | 1222 | 7 | US-11-174-307B-2688 | Sequence 2688, Ap  | 1057 | 6 | 2.2 | 1443 | 7 | US-11-174-307B-870  | Sequence 870, App  |
| 985  | 6 | 2.2 | 1223 | 7 | US-11-174-307B-2472 | Sequence 2472, Ap  | 1058 | 6 | 2.2 | 1445 | 7 | US-11-174-307B-3368 | Sequence 3368, App |
| 986  | 6 | 2.2 | 1224 | 7 | US-11-174-307B-1988 | Sequence 1988, Ap  | 1059 | 6 | 2.2 | 1448 | 7 | US-11-174-307B-2194 | Sequence 2194, App |
| 987  | 6 | 2.2 | 1225 | 7 | US-11-174-307B-788  | Sequence 788, App  | 1060 | 6 | 2.2 | 1450 | 7 | US-11-174-307B-1138 | Sequence 1138, Ap  |
| 988  | 6 | 2.2 | 1230 | 7 | US-11-174-307B-1156 | Sequence 1156, Ap  | 1061 | 6 | 2.2 | 1457 | 7 | US-11-174-307B-1094 | Sequence 1094, Ap  |
| 989  | 6 | 2.2 | 1231 | 7 | US-11-174-307B-834  | Sequence 834, App  | 1062 | 6 | 2.2 | 1462 | 7 | US-11-174-307B-1056 | Sequence 1056, Ap  |
| 990  | 6 | 2.2 | 1242 | 7 | US-11-174-307B-410  | Sequence 410, App  | 1063 | 6 | 2.2 | 1463 | 7 | US-11-288-992-48    | Sequence 48, App1  |
| 991  | 6 | 2.2 | 1243 | 7 | US-11-174-307B-1852 | Sequence 1852, Ap  | 1064 | 6 | 2.2 | 1464 | 7 | US-11-174-307B-1116 | Sequence 1116, Ap  |
| 992  | 6 | 2.2 | 1244 | 7 | US-11-174-307B-2498 | Sequence 2498, Ap  | 1065 | 6 | 2.2 | 1478 | 7 | US-11-174-307B-1476 | Sequence 1476, Ap  |
| 993  | 6 | 2.2 | 1245 | 7 | US-11-174-307B-3982 | Sequence 3982, Ap  | 1066 | 6 | 2.2 | 1479 | 7 | US-11-174-307B-460  | Sequence 460, App  |
| 994  | 6 | 2.2 | 1248 | 7 | US-11-174-307B-28   | Sequence 28, App1  | 1067 | 6 | 2.2 | 1482 | 7 | US-11-174-307B-1804 | Sequence 1804, Ap  |
| 995  | 6 | 2.2 | 1250 | 7 | US-11-174-307B-1888 | Sequence 1888, Ap  | 1068 | 6 | 2.2 | 1485 | 7 | US-11-174-307B-2206 | Sequence 2206, Ap  |
| 996  | 6 | 2.2 | 1251 | 7 | US-11-174-307B-426  | Sequence 426, App  | 1069 | 6 | 2.2 | 1486 | 7 | US-11-174-307B-684  | Sequence 684, App  |
| 997  | 6 | 2.2 | 1252 | 7 | US-11-174-307B-536  | Sequence 536, App  | 1070 | 6 | 2.2 | 1486 | 7 | US-11-174-307B-2236 | Sequence 2236, Ap  |
| 998  | 6 | 2.2 | 1252 | 7 | US-11-174-307B-966  | Sequence 966, App  | 1071 | 6 | 2.2 | 1501 | 7 | US-11-174-307B-1648 | Sequence 1648, Ap  |
| 999  | 6 | 2.2 | 1254 | 7 | US-11-174-307B-686  | Sequence 686, App  | 1072 | 6 | 2.2 | 1505 | 7 | US-11-174-307B-1622 | Sequence 1622, Ap  |
| 1000 | 6 | 2.2 | 1260 | 7 | US-11-174-307B-1794 | Sequence 1794, Ap  | 1073 | 6 | 2.2 | 1510 | 7 | US-11-174-307B-584  | Sequence 584, App  |
| 1001 | 6 | 2.2 | 1266 | 7 | US-11-174-307B-478  | Sequence 478, App  | 1074 | 6 | 2.2 | 1512 | 7 | US-11-174-307B-550  | Sequence 550, App  |
| 1002 | 6 | 2.2 | 1274 | 7 | US-11-174-307B-1848 | Sequence 1848, Ap  | 1075 | 6 | 2.2 | 1513 | 7 | US-11-174-307B-2306 | Sequence 2306, Ap  |
| 1003 | 6 | 2.2 | 1277 | 7 | US-11-174-307B-634  | Sequence 634, App  | 1076 | 6 | 2.2 | 1516 | 7 | US-11-174-307B-4074 | Sequence 4074, Ap  |
| 1004 | 6 | 2.2 | 1285 | 7 | US-11-174-307B-2386 | Sequence 2386, App | 1077 | 6 | 2.2 | 1517 | 7 | US-11-174-307B-616  | Sequence 616, App  |
| 1005 | 6 | 2.2 | 1286 | 7 | US-11-174-307B-1166 | Sequence 1166, Ap  | 1078 | 6 | 2.2 | 1521 | 7 | US-11-174-307B-1956 | Sequence 1956, Ap  |
| 1006 | 6 | 2.2 | 1287 | 7 | US-11-174-307B-1024 | Sequence 1024, Ap  | 1079 | 6 | 2.2 | 1522 | 7 | US-11-174-307B-1098 | Sequence 1098, Ap  |
| 1007 | 6 | 2.2 | 1287 | 7 | US-11-174-307B-2632 | Sequence 2632, Ap  | 1080 | 6 | 2.2 | 1522 | 7 | US-11-174-307B-1154 | Sequence 1154, App |
| 1008 | 6 | 2.2 | 1289 | 7 | US-11-174-307B-434  | Sequence 434, App  | 1081 | 6 | 2.2 | 1523 | 7 | US-11-174-307B-766  | Sequence 766, App  |
| 1009 | 6 | 2.2 | 1292 | 7 | US-11-174-307B-514  | Sequence 514, App  | 1082 | 6 | 2.2 | 1524 | 7 | US-11-174-307B-2656 | Sequence 2656, Ap  |
| 1010 | 6 | 2.2 | 1293 | 7 | US-11-174-307B-176  | Sequence 176, App  | 1083 | 6 | 2.2 | 1527 | 7 | US-11-174-307B-1378 | Sequence 1278, Ap  |
| 1011 | 6 | 2.2 | 1293 | 7 | US-11-174-307B-502  | Sequence 502, App  | 1084 | 6 | 2.2 | 1528 | 7 | US-11-174-307B-4664 | Sequence 4664, Ap  |
| 1012 | 6 | 2.2 | 1293 | 7 | US-11-174-307B-824  | Sequence 824, App  | 1085 | 6 | 2.2 | 1533 | 7 | US-11-174-307B-1114 | Sequence 1114, Ap  |
| 1013 | 6 | 2.2 | 1298 | 7 | US-11-174-307B-560  | Sequence 560, App  | 1086 | 6 | 2.2 | 1533 | 7 | US-11-174-307B-78   | Sequence 78, App1  |
| 1014 | 6 | 2.2 | 1310 | 7 | US-11-174-307B-1186 | Sequence 1186, Ap  | 1087 | 6 | 2.2 | 1536 | 7 | US-11-174-307B-1218 | Sequence 1218, Ap  |
| 1015 | 6 | 2.2 | 1315 | 7 | US-11-174-307B-610  | Sequence 610, App  | 1088 | 6 | 2.2 | 1538 | 7 | US-11-174-307B-2654 | Sequence 2654, Ap  |
| 1016 | 6 | 2.2 | 1316 | 7 | US-11-174-307B-588  | Sequence 588, App  | 1089 | 6 | 2.2 | 1561 | 7 | US-11-174-307B-966  | Sequence 966, App  |
| 1017 | 6 | 2.2 | 1320 | 7 | US-11-174-307B-2270 | Sequence 2270, App | 1090 | 6 | 2.2 | 1562 | 7 | US-11-174-307B-1172 | Sequence 1172, Ap  |
| 1018 | 6 | 2.2 | 1324 | 7 | US-11-174-307B-1210 | Sequence 1210, Ap  | 1091 | 6 | 2.2 | 1568 | 7 | US-11-174-307B-2072 | Sequence 2072, Ap  |
| 1019 | 6 | 2.2 | 1326 | 7 | US-11-174-307B-1514 | Sequence 1514, Ap  | 1092 | 6 | 2.2 | 1569 | 7 | US-11-174-307B-1050 | Sequence 1050, Ap  |
| 1020 | 6 | 2.2 | 1333 | 7 | US-11-174-307B-2520 | Sequence 2520, Ap  | 1093 | 6 | 2.2 | 1604 | 7 | US-11-174-307B-2686 | Sequence 2686, Ap  |
| 1021 | 6 | 2.2 | 1335 | 7 | US-11-174-307B-2138 | Sequence 2138, Ap  | 1094 | 6 | 2.2 | 1605 | 7 | US-11-174-307B-1410 | Sequence 1410, Ap  |
| 1022 | 6 | 2.2 | 1335 | 7 | US-11-174-307B-3964 | Sequence 3964, Ap  | 1095 | 6 | 2.2 | 1610 | 7 | US-11-174-307B-1472 | Sequence 1472, Ap  |
| 1023 | 6 | 2.2 | 1336 | 7 | US-11-174-307B-1036 | Sequence 1036, Ap  | 1096 | 6 | 2.2 | 1611 | 7 | US-11-174-307B-2234 | Sequence 2234, Ap  |
| 1024 | 6 | 2.2 | 1344 | 7 | US-11-174-307B-1940 | Sequence 1940, Ap  | 1097 | 6 | 2.2 | 1611 | 7 | US-11-174-307B-2252 | Sequence 2252, Ap  |
| 1025 | 6 | 2.2 | 1346 | 7 | US-11-174-307B-3818 | Sequence 3818, Ap  | 1098 | 6 | 2.2 | 1617 | 7 | US-11-174-307B-2182 | Sequence 2182, Ap  |
| 1026 | 6 | 2.2 | 1347 | 7 | US-11-174-307B-844  | Sequence 844, App  | 1099 | 6 | 2.2 | 1620 | 7 | US-11-174-307B-620  | Sequence 620, App  |
| 1027 | 6 | 2.2 | 1347 | 7 | US-11-174-307B-1066 | Sequence 1066, Ap  | 1100 | 6 | 2.2 | 1633 | 7 | US-11-174-307B-2406 | Sequence 2406, Ap  |
| 1028 | 6 | 2.2 | 1360 | 7 | US-11-330-403-4001  | Sequence 4001, Ap  | 1101 | 6 | 2.2 | 1641 | 7 | US-11-174-307B-760  | Sequence 760, App  |
| 1029 | 6 | 2.2 | 1363 | 7 | US-11-174-307B-4900 | Sequence 4900, Ap  | 1102 | 6 | 2.2 | 1642 | 7 | US-11-174-307B-1424 | Sequence 1424, Ap  |
| 1030 | 6 | 2.2 | 1365 | 7 | US-11-174-307B-2230 | Sequence 2290, Ap  | 1103 | 6 | 2.2 | 1652 | 7 | US-11-174-307B-1450 | Sequence 1450, Ap  |
| 1031 | 6 | 2.2 | 1365 | 7 | US-11-174-307B-2318 | Sequence 2318, Ap  | 1104 | 6 | 2.2 | 1655 | 7 | US-11-174-307B-3630 | Sequence 3630, Ap  |
| 1032 | 6 | 2.2 | 1369 | 7 | US-11-174-307B-2154 | Sequence 2154, Ap  | 1105 | 6 | 2.2 | 1657 | 7 | US-11-174-307B-642  | Sequence 642, App  |
| 1033 | 6 | 2.2 | 1370 | 7 | US-11-174-307B-2490 | Sequence 2490, Ap  | 1106 | 6 | 2.2 | 1658 | 7 | US-11-174-307B-2176 | Sequence 2176, Ap  |
| 1034 | 6 | 2.2 | 1382 | 7 | US-11-174-307B-828  | Sequence 828, App  | 1107 | 6 | 2.2 | 1659 | 7 | US-11-174-307B-3184 | Sequence 3184, Ap  |
| 1035 | 6 | 2.2 | 1382 | 7 | US-11-174-307B-2432 | Sequence 2402, Ap  | 1108 | 6 | 2.2 | 1663 | 7 | US-11-174-307B-938  | Sequence 938, App  |
| 1036 | 6 | 2.2 | 1387 | 7 | US-11-174-307B-3932 | Sequence 3932, Ap  | 1109 | 6 | 2.2 | 1665 | 7 | US-11-174-307B-1126 | Sequence 1126, Ap  |
| 1037 | 6 | 2.2 | 1391 | 7 | US-11-174-307B-4782 | Sequence 4782, Ap  | 1110 | 6 | 2.2 | 1665 | 7 | US-11-174-307B-2696 | Sequence 2696, Ap  |
| 1038 | 6 | 2.2 | 1394 | 7 | US-11-174-307B-2146 | Sequence 2146, Ap  | 1111 | 6 | 2.2 | 1676 | 7 | US-11-174-307B-546  | Sequence 546, App  |
| 1039 | 6 | 2.2 | 1401 | 7 | US-11-174-307B-2764 | Sequence 2764, Ap  | 1112 | 6 | 2.2 | 1685 | 7 | US-11-174-307B-2212 | Sequence 2212, Ap  |
| 1040 | 6 | 2.2 | 1403 | 7 | US-11-174-307B-448  | Sequence 448, App  | 1113 | 6 | 2.2 | 1686 | 7 | US-11-174-307B-1802 | Sequence 1802, Ap  |
| 1041 | 6 | 2.2 | 1407 | 7 | US-11-174-307B-464  | Sequence 464, App  | 1114 | 6 | 2.2 | 1692 | 7 | US-11-174-307B-2858 | Sequence 2858, Ap  |
| 1042 | 6 | 2.2 | 1408 | 7 | US-11-174-307B-462  | Sequence 462, App  | 1115 | 6 | 2.2 | 1697 | 7 | US-11-174-307B-992  | Sequence 992, App  |
| 1043 | 6 | 2.2 | 1408 | 7 | US-11-174-307B-2510 | Sequence 2510, Ap  | 1116 | 6 | 2.2 | 1703 | 7 | US-11-174-307B-558  | Sequence 558, App  |
| 1044 | 6 | 2.2 | 1411 | 7 | US-11-174-307B-2210 | Sequence 2210, Ap  | 1117 | 6 | 2.2 | 1705 | 7 | US-11-174-307B-1104 | Sequence 1104, Ap  |
| 1045 | 6 | 2.2 | 1412 | 7 | US-11-174-307B-3072 | Sequence 3072, Ap  | 1118 | 6 | 2.2 | 1705 | 7 | US-11-174-307B-4442 | Sequence 4442, Ap  |
| 1046 | 6 | 2.2 | 1418 | 7 | US-11-174-307B-950  | Sequence 950, App  | 1119 | 6 | 2.2 | 1708 | 7 | US-11-174-307B-2086 | Sequence 2086, Ap  |
| 1047 | 6 | 2.2 | 1422 | 7 | US-11-174-307B-690  | Sequence 690, App  | 1120 | 6 | 2.2 | 1708 | 7 | US-11-174-307B-2136 | Sequence 2136, Ap  |
| 1048 | 6 | 2.2 | 1425 | 7 | US-11-174-307B-706  | Sequence 706, App  | 1121 | 6 | 2.2 | 1711 | 7 | US-11-174-307B-2190 | Sequence 2190, Ap  |
| 1049 | 6 | 2.2 | 1426 | 7 | US-11-174-307B-442  | Sequence 442, App  | 1122 | 6 | 2.2 | 1712 | 7 | US-11-174-307B-1086 | Sequence 1086, Ap  |
| 1050 | 6 | 2.2 | 1427 | 7 | US-11-174-307B-1060 | Sequence 1060, App | 1123 | 6 | 2.2 | 1713 | 7 | US-11-174-307B-2224 | Sequence 2224, Ap  |
| 1051 | 6 | 2.2 | 1432 | 7 | US-11-174-307B-2846 | Sequence 2846, Ap  | 1124 | 6 | 2.2 | 1720 | 7 | US-11-174-307B-3576 | Sequence 3576, Ap  |
| 1052 | 6 | 2.2 | 1434 | 7 | US-11-174-307B-1194 | Sequence 1194, Ap  | 1125 | 6 | 2.2 | 1729 | 7 | US-11-174-307B-3342 | Sequence 3342, Ap  |
| 1053 | 6 | 2.2 | 1437 | 7 | US-11-330-403-10720 | Sequence 10720, A  | 1126 | 6 | 2.2 | 1730 | 7 | US-11-174-307B-726  | Sequence 726, App  |
| 1054 | 6 | 2.2 | 1438 | 7 | US-11-174-307B-1176 | Sequence 1176, Ap  | 1127 | 6 | 2.2 | 1741 | 7 | US-11-174-307B-726  | Sequence 726, App  |

Job time : 38 secs

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| 1128 | 6 | 2.2 | 1751 | 7 | US-11-174-307B-1128 | Sequence 1128, Ap |
| 1129 | 6 | 2.2 | 1759 | 7 | US-11-174-307B-942  | Sequence 942, App |
| 1130 | 6 | 2.2 | 1762 | 7 | US-11-174-307B-2674 | Sequence 2674, Ap |
| 1131 | 6 | 2.2 | 1763 | 7 | US-11-174-307B-2112 | Sequence 2112, Ap |
| 1132 | 6 | 2.2 | 1765 | 7 | US-11-174-307B-2282 | Sequence 2282, Ap |
| 1133 | 6 | 2.2 | 1766 | 7 | US-11-174-307B-2614 | Sequence 2614, Ap |
| 1134 | 6 | 2.2 | 1768 | 7 | US-11-174-307B-5194 | Sequence 5194, Ap |
| 1135 | 6 | 2.2 | 1768 | 7 | US-11-174-307B-1220 | Sequence 1220, Ap |
| 1136 | 6 | 2.2 | 1783 | 7 | US-11-174-307B-902  | Sequence 902, App |
| 1137 | 6 | 2.2 | 1792 | 7 | US-11-174-307B-1192 | Sequence 1192, Ap |
| 1138 | 6 | 2.2 | 1811 | 7 | US-11-174-307B-924  | Sequence 924, App |
| 1139 | 6 | 2.2 | 1818 | 7 | US-11-174-307B-586  | Sequence 586, App |
| 1140 | 6 | 2.2 | 1819 | 7 | US-11-174-307B-822  | Sequence 822, App |
| 1141 | 6 | 2.2 | 1820 | 7 | US-11-174-307B-1814 | Sequence 1814, Ap |
| 1142 | 6 | 2.2 | 1824 | 7 | US-11-174-307B-1444 | Sequence 1444, Ap |
| 1143 | 6 | 2.2 | 1842 | 6 | US-10-511-937-2929  | Sequence 2929, Ap |
| 1144 | 6 | 2.2 | 1844 | 7 | US-11-174-307B-930  | Sequence 930, App |
| 1145 | 6 | 2.2 | 1847 | 7 | US-11-174-307B-2852 | Sequence 2852, Ap |
| 1146 | 6 | 2.2 | 1860 | 7 | US-11-174-307B-612  | Sequence 612, App |
| 1147 | 6 | 2.2 | 1868 | 7 | US-11-174-307B-2266 | Sequence 2266, Ap |
| 1148 | 6 | 2.2 | 1881 | 7 | US-11-174-307B-520  | Sequence 520, App |
| 1149 | 6 | 2.2 | 1883 | 7 | US-11-174-307B-708  | Sequence 708, App |
| 1150 | 6 | 2.2 | 1884 | 7 | US-11-174-307B-2588 | Sequence 2588, Ap |
| 1152 | 6 | 2.2 | 1897 | 7 | US-11-174-307B-2884 | Sequence 2884, Ap |
| 1153 | 6 | 2.2 | 1910 | 7 | US-11-174-307B-2256 | Sequence 2256, Ap |
| 1154 | 6 | 2.2 | 1915 | 7 | US-11-174-307B-1702 | Sequence 1702, Ap |
| 1155 | 6 | 2.2 | 1919 | 7 | US-11-174-307B-978  | Sequence 978, App |
| 1156 | 6 | 2.2 | 1942 | 7 | US-11-174-307B-1296 | Sequence 1296, Ap |
| 1157 | 6 | 2.2 | 1957 | 7 | US-11-174-307B-2192 | Sequence 2192, Ap |
| 1158 | 6 | 2.2 | 1957 | 7 | US-11-174-307B-2230 | Sequence 2230, Ap |
| 1159 | 6 | 2.2 | 1968 | 7 | US-11-174-307B-730  | Sequence 730, App |
| 1160 | 6 | 2.2 | 1970 | 7 | US-11-174-307B-1984 | Sequence 1984, Ap |
| 1161 | 6 | 2.2 | 1973 | 7 | US-11-174-307B-1378 | Sequence 1378, Ap |
| 1162 | 6 | 2.2 | 2003 | 7 | US-11-174-307B-5496 | Sequence 5496, Ap |
| 1163 | 6 | 2.2 | 2016 | 7 | US-11-174-307B-2188 | Sequence 2188, Ap |
| 1164 | 6 | 2.2 | 2017 | 7 | US-11-174-307B-2682 | Sequence 2682, Ap |
| 1165 | 6 | 2.2 | 2017 | 7 | US-11-174-307B-680  | Sequence 680, App |
| 1166 | 6 | 2.2 | 2052 | 7 | US-11-174-307B-652  | Sequence 652, App |
| 1167 | 6 | 2.2 | 2061 | 7 | US-11-174-307B-1216 | Sequence 1216, Ap |
| 1168 | 6 | 2.2 | 2072 | 7 | US-11-174-307B-1184 | Sequence 1184, Ap |
| 1169 | 6 | 2.2 | 2077 | 7 | US-11-174-307B-2340 | Sequence 2340, Ap |
| 1170 | 6 | 2.2 | 2085 | 7 | US-11-174-307B-954  | Sequence 954, App |
| 1171 | 6 | 2.2 | 2101 | 7 | US-11-174-307B-778  | Sequence 778, App |
| 1172 | 6 | 2.2 | 2127 | 7 | US-11-174-307B-748  | Sequence 748, App |
| 1173 | 6 | 2.2 | 2142 | 7 | US-11-174-307B-2118 | Sequence 2118, Ap |
| 1174 | 6 | 2.2 | 2143 | 7 | US-11-174-307B-2550 | Sequence 2550, Ap |
| 1175 | 6 | 2.2 | 2152 | 7 | US-11-051-725-22    | Sequence 22, Appl |
| 1176 | 6 | 2.2 | 2161 | 6 | US-10-829-000-4     | Sequence 4, Appl  |
| 1177 | 6 | 2.2 | 2161 | 7 | US-11-051-725-188   | Sequence 188, App |
| 1178 | 6 | 2.2 | 2228 | 7 | US-11-174-307B-920  | Sequence 920, App |
| 1179 | 6 | 2.2 | 2356 | 7 | US-11-174-307B-804  | Sequence 804, App |
| 1180 | 6 | 2.2 | 2394 | 7 | US-11-174-307B-2722 | Sequence 2722, Ap |
| 1181 | 6 | 2.2 | 2412 | 7 | US-11-174-307B-136  | Sequence 136, App |
| 1182 | 6 | 2.2 | 2415 | 7 | US-11-174-307B-1564 | Sequence 1564, Ap |
| 1183 | 6 | 2.2 | 2499 | 7 | US-11-174-307B-138  | Sequence 138, App |
| 1184 | 6 | 2.2 | 2623 | 6 | US-10-374-780A-1433 | Sequence 1433, Ap |
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| 1186 | 6 | 2.2 | 2643 | 7 | US-11-174-307B-58   | Sequence 58, Appl |
| 1187 | 6 | 2.2 | 2762 | 7 | US-11-174-307B-2676 | Sequence 2676, Ap |
| 1188 | 6 | 2.2 | 2841 | 7 | US-11-174-307B-2530 | Sequence 2530, Ap |
| 1189 | 6 | 2.2 | 3020 | 7 | US-11-140-487A-772  | Sequence 772, App |
| 1190 | 6 | 2.2 | 3159 | 7 | US-11-174-307B-1916 | Sequence 1916, Ap |
| 1191 | 6 | 2.2 | 3303 | 6 | US-10-547-530-49    | Sequence 49, Appl |
| 1192 | 6 | 2.2 | 3392 | 7 | US-11-174-307B-1654 | Sequence 1654, Ap |
| 1193 | 6 | 2.2 | 3399 | 6 | US-10-547-530-47    | Sequence 47, Appl |
| 1194 | 6 | 2.2 | 3723 | 7 | US-11-174-307B-2802 | Sequence 2802, Ap |
| 1195 | 6 | 2.2 | 4243 | 7 | US-11-174-307B-1722 | Sequence 1722, Ap |
| 1196 | 6 | 2.2 | 4659 | 7 | US-11-174-307B-1816 | Sequence 1816, Ap |
| 1197 | 6 | 2.2 | 4709 | 7 | US-11-174-307B-2292 | Sequence 2292, Ap |
| 1198 | 6 | 2.2 | 4834 | 6 | US-10-505-828-827   | Sequence 827, App |
| 1199 | 6 | 2.2 | 7285 | 7 | US-11-272-521-28    | Sequence 28, Appl |

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